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 atnggatcng
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tgtttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggecca acagtgetee aangngggaa gn
     ್ ೧೯ ೯೯ ಕಲ್ ಬಹುದು ನಾರು ನ
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tgcctccgtc ccntgnccag ttggganccc agttcaaccc ctnaaccttc nagttaattc 420
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gaccgactga gggagcgacc tgcgcagggc ccggggagtc atgtaagggt ggcaccctg 120
gctacagtca acatettgat ntcactgtgc caactgcggt gcctgccctt canagecetg 180
cactttgttt thtcccctgg cttcatchac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcgct acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
ggtccccgcc ttccccgaan gcagtaagtg cccatctttc cccaacctct cntcaccgac 360
cgtgcccgct gcaagtacng tcacaa
                                                                    386
<210> 671
<211> 436
<212> DNA
<213> Homo sapiens
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tggagacaga gcgagggttt gaggagttgc ccctgtgcag ctgccgcatg gaggcaccca 60
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agattgacag catcagcgag agggcggggc acaagtgcat ggccactgag agtgtggacg 120
gagagetgte aggetgeaat geegeeatee teaageggga gaccatgagg ceatecagee 180
gtgtggccct gatggtgctc tgtgagaccc accgcgcccg catggtcaaa caccactgct 240
gcccgggctg cggctacttc tgcacggcgg gcaccttcct ggagtgccac cctgacttcc 300
gtgtggccca ccgcttccac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
cccactgtgg ggaggatact tctgaagctc aagangtgac catccccggg gtgacggggt 420
gacccaacgg ccggca
                                                  436
<210> 672 - 121 - 121 - 1
<211> 504
<213> Homo sapiens
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<221> misc feature
<222> (22) (23) (25) (27)
<223> n equals a,t,g, or c
. . . .
<22<u>0</u>> 2000 Location
<221> misc feature
<223> n equals a,t,g, or c
<220>- - . ... re.. rites
<221> misc feature
<223> n equals a,t,g, or c
 2 ...
<220>
<221> misc feature
<223> n equals a,t,g, or c
 3.2
<220>.
<221> misc feature
<222> (57)
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         <221> misc feature -----
<222> (68)-
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<220>
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<221> misc feature
<222> (76)
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<221> misc feature
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<221> misc feature
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<221> misc feature
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<221> misc feature
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 <221> misc feature
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 <221> misc feature
 <222> (393)
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 <221> misc feature
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<220>
 <221> misc feature
 <222> (400)
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 <222> (410)
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 <220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c
 <220>
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<221> misc feature
   <222> (427)
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     facilities of the second
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   <221> misc feature
   <222> (430)
   <223> n equals a,t,g, or c
    111 - 122 - 122 -
  <220>
  <221> misc feature
  <222> (438)
  <223> n equals a,t,g, or c
     17<sup>3</sup> 1 2 259 Highwes
  <220>
  <221> misc feature
  <222> (456)
  <223> n equals a,t,g, or c
        a mind independ
  <220>
  <221> misc feature - 0%
  <222> (457)
 <223> n equals a,t,g, or c
  17 July 1 Responsible 1980
 <220>
 <221> misc feature
 <222> (460)
 <223> n equals a,t,g, or c
  The Thomas Translation
 <220>- 1331
 <221> misc_feature ...
 <222> (462)
 <223> n equals a,t,g, or c
          io sien Geroene
 <221> misc feature
 <222> (465)
 <223> n equals a,t,g, or c
       <220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c
         in the contract of the contrac
<221> misc feature <222> (470)
                                                                                                                                         . .
                                                                                            . . .
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                                                                                                        <220>
<221> misc feature
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 <222> (482)
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 <220>
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 tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
 tgaagctggt gtgaccttca catngatgga ncatggctga cttncncact atcctcttca 240
 catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
 ggngnaaagg antcaaggtt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
 ctnctgncan cagtgggncc atttttgggt attttnctn tnaantanan agggctantt 480
tnatcttgtt gttgcagnct ttnc
                                                                    504
<210> 673
<211> 431
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
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<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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   <220>
  <221> misc feature
   <222> (113)
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  <220>
  <221> misc feature
  <222> (114)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (412)
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  <220>
  <221> misc feature de de d
  <222> (422)
  <223> n equals a,t,g, or c
  <400> 673
 aatacccaca ccnaacggga caaaaacctg gaanaccacc gaggtggcgg ccgcncatag 60
 aactagtgga acccccaggg ctgcaggaat tcgggcacga ggnagagcgg acnngtgagc 120
 agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggcctagctt tacccgcccg 180
 cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
 aaggcatcaa gcaggtgtac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
 tetggatega tggtaetgga gaaggaetge getgeaagae eeggaceetg gaeagtgage 360
 ccaagtgtgt ggaagagttg cctgagtgga atttcgatgg ctctagtact tnacagtctg 420
 anggttccag t
<211> 370
 <210> 674
 <212> DNA
 <213> Homo sapiens
                                                                                                                   <220> description of the control of 
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (29)
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<223> n equals a,t,g, or c
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<221> misc feature
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<221> misc feature
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<221> misc feature
<222> (114)
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<221> misc feature
<222> (309)
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<221> misc feature
<222> (310)
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<221> misc feature
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ggaaggtgct titigcacitg ngtitaaaag tgitcattit cccgggcaag cagniggcac 120
aaggegaggt ageeetetgt tgattggtgt aeggagtgaa cataaacttt ctactgatca 180
cattectata etetacagaa caggeaaaga caagaaagga agetgeaate tetetegngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
tgatgcaann gctgcataga acacaccaat cgcgtcatct ttctggaaga tgatgatgtn 360
gcagcaagna
<210> 675
<211> 363
<213> Homo sapiens
<220> 1 10 Star TARREST
<221> misc feature
<222> (5) a midda au no in ar a
<223> n equals a,t,g, or c
<220> " " u ...abi u a
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
       <221> misc feature
<223> n equals a,t,g, or c
      <220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
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<222> (65)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c
<220> - : :
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```
<221> misc feature
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<223> n equals a,t,g, or c
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 <221> misc feature
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cagtneette aageetacaa geecegagag aatgatgant tggeactgga gaaageegae 120
gtggtgatgg tgactcacca gagcagtgca cggctggctg gagggcgtga ggctctcaga 180
cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
gtgacacaga acctgaaggg aagcttcatc gagtgcaaga cttgccaaac tacagctngt 300
gggaacagca agcctnantt ttctnctgna gaaggagttt tcgtgagctg gaagaacaag 360
ttg
<210> 676
<211> 441
<212> DNA
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<213> Homo sapiens
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<221> misc feature
<222> (353)
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<221> misc feature
<222> (397)
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<221> misc feature
<222> (404)
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<221> misc feature
<222> (413)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (441)
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gctgcagaag gacaagcagg tctaccgggc cacgcaccgc ctgctgctgc tgggtgctgg 120
agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgca gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcca tgagcaacct ggtgccccc gtggagctgg ccaaccccga 300
aaaccagtte agagtggact acatectgag tgtgatgaac gtgcctgact ttnacttccc 360
tecegaatte tatgageatg ceaaggetet gtgggangat gaangagtge gtneetgeta 420
cgaacgctcc aacgaatacn n
                                                               441
<210> 677
<211> 550
<212> DNA
<213> Homo sapiens
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 <222> (217)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (429)
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<220>
<221> misc feature
<222> (482) . ...
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<220>
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<222> (484)
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<220>
<221> misc feature
<222> (487)
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<221> misc feature
<222> (523)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (542)
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ggatcatcaa cgagcccacg gccgccgcca tcgcctacgg cctggacaga acgggcaagg 120
gggagcgcaa cgtgctcatc tttgacctgg gcgggggcac cttcgacgtg tccatcctga 180
cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacacccac ctgggtgggg 240
aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
gaggaccctg tcgtccagca cccaggccag cctggagatc gacttccttg ttttgagggc 420
ategaettnt acaegtteat caceagggeg aaggttegaa ggagetgtge tteegaeett 480
gntnccnaaa cacccctggg aaccccgtgg gaaaaaaggc ttnttgcgcc gaaaggccca 540
ancttgggac
<210> 678
<211> 435
<212> DNA
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<213> Homo sapiens
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          <222> (47)
          <223> n equals a,t,g, or c
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         <221> misc feature
         <222> .(55) i ... i ... ... ...
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         <220>
       <221> misc feature
        <223> n equals a,t,g, or c
       <220>
        <221> misc feature
        <222> (295) ...
        <223> n equals a,t,g, or c
       <220>
       <221> misc feature
       <222> (330)
       <223> n equals a,t,g, or c
       <220>
       <221> misc feature
       <222> (333)
       <223> n equals a,t,g, or c
                                  in the second of the control of the second o
       <221> misc feature
      <222> (344)
      <223> n equals a,t,g, or c
     <220>
     <221> misc feature
<222> (376)
      <223> n equals a,t,g, or c....
<220>
     <221> misc feature
     <222> (385)
     <223> n equals a,t,g, or c
     <220>
     <221> misc feature
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<222> (401)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (423)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (434) ......
<223> n equals a,t,g, or c
              . . .
<220>
<221> misc feature
<223> n equals a,t,g, or c
         And Diditi . .
<400> 678
tgcaggaaga gctcgtggaa gaggtggtgg ccccagtcaa aactggnaac caggnatata 60
gtaactattg gaatcaaggc tatggcaact atggatataa cagccaaggt tacggtggtt 120
atggaggata tggnctacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
tgaaggttcc tttgaggggg gctccgcccn ggncttaatt ggcnttccaa ctaaattttt 360
gggtatccag tccccnatgg gagtntgcgg tggggccccc nggagtttaa ttcggggtcc 420
ccntaaagga tttnn
<210> 679
<211> 390
<220>
<221> misc feature
<222> (164)
<222> (164)
<223> n equals a,t,g, or c
      <220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (330)
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<223> n equals a,t,g, or c

```
<220>
 <221> misc feature
 <222> (333)
<223> n equals a,t,g, or c
 <220>
<221> misc feature
 <222> (371)
<223> n equals-a,t,g, or c
<220> - ... - ... - ... - ... - ...
<221> misc feature
<222> (390)
<223> n'equals a;t;g; oreçemanta revenuente per estadanda e e e

    400> 679

cggacgcgtg ggctctggcc cctggtcctg tcctgttctc caacatggtg tgtctgaagt 60
tccctggaag ctcctgcatg gcagctctga cagtgacact gatggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtgggggaat accgggcggt gacgganctg gggcggccta 300
actecgaata etggaacage cagaaagaen eengggacag aagegggeeg eggtggacae 360
ctactgcaga nacactacgg ggttgggtgn
<210> 680
<211> 343
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
      <220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
        the state of the state of the state of
<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c
 <221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

```
<222> (18)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (160)
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<220>
<221> misc feature
<223> n equals a,t,g, or c
<221> misc feature
<222> (197) - -
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (202)
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 ·<220> ·· . ·· <u>.</u>...
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 <222> (292)
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 nnaatatota thoootogat gatatoagaa gatatothon otatgoaaga aagthtaaac 180
 ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
 aagatgggtt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
 gccttggatc cgtctctctt ggaagccaat ngctccgggt gcc
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<221> misc feature
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                         The second process of the state of the second
<221> misc feature
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taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatatc tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaaggtt aaaaaaaagta aaaggaactc ggcaaatctt 300
accecçectg tttaccaaaa acatcacete tagcatcace agtattagag geacegeetg 360
cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
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        1. 1 1 2 .
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ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgagggtt cagctgtctc 240
ttacttttaa ccagtgaaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aatttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaacccaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
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 <222> (225)
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<223> n equalsca, t,g, orcc:
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<222> (240)
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<223> n equals_a,t,g;.orrc:
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acccccgtt gcggctcggg cctgctctgc tacccgcccc gaggggtgga gaagcccctg 180
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```

```
ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg gggggtccct 180
  gagactetee tgtacagtet etggatteae etttegeaac tatgeeatga gttgggteeg 240
  ccagggtcca gggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataacac 300
  atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
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 (x_{ij})^{-1} = \sum_{i=1}^{n} (x_{ij}^{(i)} + x_{ij}^{(i)} + x_{ij
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          <222> (442)
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        <222> (456)
        <223> n equals a,t,g, or c
                                                                         <220>
        <221> misc feature
        <222> (457)
        <223> n equals a,t,g; or continuous sections recommend to the section of the sect
                                                                                                       o Maria III in the Colored and the State of the Colored and th
       <220> The transfer of the wild and the transfer of the property of the contract of the contrac
     <221> misc feature of at the contemporary was approximately a season of
       <222> (505)
                                                                                                                                                                                                                                                                                                                                 ter garie y filosopo timbro d
       <223> n equals a,t;g; or c.ac ear mage of the complete of the 
                                 The life of the first of the section of the section
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                                                                                                                                                                                                                on the company of the contract of the contract
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     <222> (509)
     <223> n equals a,t,g, or c
     <221> misc feature
     <222> (536)
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  aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg gaccgtcacc cctggagaga 120
  cggcctccat ctcctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
  tggattggta catgcagaag ccagggcagc ctccacagct cgtggtctat aggggttcca 240
  atcgggcctc cggggtccct gacaggttca gtggcggtgg atcaggcaca gattttacac 300
  ttagaatcac cacggtggag gctgangatg ttggcgttta ttactgcatg caagctctac 360
  aaagtccgta cacttttggc caggggacca agctggagat caaacgaact gtgggctgca 420
  ccatctgnct tcatcttncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
  gggggcctgc tgaataactt ctatnccana gaggcccaaa gtaccagtgg aaaggnggga 540
                                                                                                                 and the control of the state of the control of the 
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  <211> 496 ···
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<222> (358)
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gcctggattc cacagetteg egeogtgtac tgtegeecca tecetgegeg eccageetge 180
caagcagcgt gccccggttg caggcgtcat gcagcgggcg cgacccacgc tctgggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgccggtg gcgcgggctg gcgcgagctc 300
ggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
egegeettee geeegeegtg tgegeeggaa ettggtgege caageeggge ttgeggntge 420
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nttccggnct tcgttg
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 <221> misc feature % % LT
 <222> (56)
 <223> n equals a,t,g, or c
        Contract Cartilla
 <400> 687
 geneganaen aacceteact aaagggaaca aaagetggag etecacegeg gtgegneege 60
 tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
 tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
 agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
 ccgtggaggt agatgccccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
 cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tggtctcagc 360
 agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
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 <210> 688
 <211> 483
 <212> DNA
 <213> Homo sapiens
                             organisa kadaming katalah terbahan pertabah terbahan begian g
<220> (7.6) (1.1) Modernia Laberthan Control (1) and the contro
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<222> (4)
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cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa un milin nu
<210> 689-----
<211> 339
<212> DNA
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<213> Homo sapiens
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<220>
            - 1 - 1 - 3. ES 4
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c
<220> . . . . . . . . 1. " . "
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c
         1.11.2 1 1 1 1 1
<220>
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<221> misc feature
<222> (289)
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ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180
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```
tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtggtg ttcaantcga 240
           cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
           tttgagggga ccaaaagcag ccaaaacctt aaaaaanna
           <210> 69.0.
           <211> 594
           <212> DNA
           <213> Homo sapiens
           <220>pains to 11 - 12 - 12 - 15 to 50 to 50 to 50 to 12 to 1
           <222> (2): 3 % 5.100 .d.20000 to be by a control of the control of
         <223> n equals a,t,g, or control of the control of 
         Sent was sent to the lease of a significant to the construction of August Constitution of the constitution
         <220>jtt+ta fitto.vtt+a +nt gntnwa -.tunn d a to.ttmin + guwaiger.h
         <221> misc feature. The transfer of years atomic tadecuages any year year of the continuous continuous and process of the continuous contin
         <222> (473)_4275
         <223> n equals a,t,g, or c
                          a. , · ·
        <400> 690
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        gcatcggaca ttctctggtg gggctcgccc tcctgtgcat cgcggctaat attttgcttt 180
      actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggt 240
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        ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
      cgatgettte ttetgtattg getgetetea ttggaattge aggatetgge tactgtgtea 420
      ttgtggcagc ccttggctta gcagaaggac cactatgtct tgattccctc ggncagtgga 480
      actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
      tgcactgaac ccaacacatt ggggaatgga atggatetet ggtttctate etet 594
                           ta a lita a complicação de la maior de la complicação de la complicação de la complicação de la complicação de
      <210> 691
      <211> 538
       <212> DNA
      <213> Homo sapiens
                                                          - - . . . . . .
     <220>
     <221> misc feature
      <222> (3).
     <223> n equals a,t,g, or c
                                                           المنازا أأيا المتعلقات
     <220>
    <221> misc feature
     <222> (6)
                                                                      _ 5.
     <223> n equals a,t,g, or c
                                                                                       in all the second
     <220>
<221> misc feature
    <222> (9)***********
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ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tgttacagag gtctccagag ccttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
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ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attotgtgac cgccaattot aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc 538
                in the second property of the property of the grant of the
<210>-692
           . Tilbali ii ii ee
<211> 201
<212> DNA
<213> Homo sapiens
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (143)
<223> n equals:a,t,g, or c
<220>
<221> misc feature
<222> (161)
<223> n equals_a,t,g, or c
<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<400> 692
geteattgcc aegegeeecc gaegaeegee egaegtgcat tecegattee ttttqqttec 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
acconceaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatottaa tgaaggactt g
                                                                . .201
```

```
<210> 693
 <211> 589
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 <213> Homo sapiens
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 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c
         The service of the
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 <222> (2)
 <223> n equals a,t,g, or c
  Control of the Alberta
 <220>
 <221> misc feature ::
 <222> (23)
 <223> n equals a,t,g, or c
    <220>
 <221> misc feature....
 <222> (271)
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 <220>
 <221> misc feature
<222> (312)
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      <220>
<221> misc feature. . . . . . . .
<222> (342)
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      <220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
     <220>
<221> misc feature . . . . .
<222> (401)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (424)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c
<220> -
<221> misc feature -- --
<222> (466)
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           <220>
<221> misc feature
<222> (491)
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  <220>
<221> misc feature - - -
<222> (551)
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<221> misc feature
<222> (571)
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           1.37
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<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c
<400> 693.
nncaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccggggttgt taacttgttt attgcagctt ataatggtta caaataaagc aatagcatca 120
caaatttcac aaataaagca ttttttcac tgcattctag ttgtggtttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggeggttt gegtattgge tggegtaata negaaaagee egeacegate geeetteeca 300
acagttgcgc ancetgaatg gegaatggga egegeeetgt aneggegeat taanegegge 360
gggtgtggtg gttaccncaa cgtgaccgct acacttgcca negccctaac gcccgctcct 420
ttenetttet teecetneet tteteeceea egtteegeeg ggtttneece gteaaactet 480
aaatccgggg ntccccttta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nnctanttgg gccacccc
```

omme amma (Carlon) hower complete and have

The state of the s

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<210> 694
       <211> 386
        <212> DNA
         <213> Homo sapiens
       <220>
       <221> misc feature
       <222> (59)
       <223> n equals a,t,g, or c
                                        18 a (1.2) to a fi
       <220>
       <221> misc feature
       <222> (135) Antitra-
       <223> n equals a,t,g, or c
      en in in in mean account of the
~ <220>
  <221> misc feature
      <222> (149)
      <223> n equals a,t,g, or c
                                      in the second of the second
      <220>
     <221> misc feature
      <222> (173) The same
      <223> n equals a,t,g, or c
                                                                                         7. 1. 25 5
                                                           ٠ _
     <220>
     <221> misc feature
     <222> (202)....
     <223> n equals a,t,g, or c
                      <220>
  <221> misc feature
    <222> (204) ---
    <223> n equals a,t,g, or c
    <220>
<221> misc feature
    <222> (244)
    <223> n equals a,t,g, or c
         Caracle State Ca
    <220>
<221> misc feature
··<222> (326)-----
    <223>:n equals a,t,g, or c
                      The Control of the Co
  <220>
  <221> misc feature
  <223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g; or c
         <220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
     <220>
<221> misc feature
<222> (383)
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gagatetgee étgeeggeea eggetacace tacgegaget ecgacateeg ectgtecatg 120
aggaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
tgangccggg accatccctg acaaggttga ctctcaagct ggccaggtca cgaccagtgt 300
cactcatgca cetgeetggg teacanggaa atgecacaan eccacecaat geetgaacag 360
ggaattgcnn aaaattccgg aanaaa
                                                           386
<210> 695
<211> 475
<212> DNA
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<220>
<221> misc feature
<222> (231)
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<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c
<220>
       . . .
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c
<220>
         . . :
<221> misc feature
```

```
<222> (463)
  <223> n equals a,t,g, or c
  <220>
                   Carrier to a table of
  <221> misc feature
  <222> (465)
  <223> n equals a,t,g, or c
  <220>
                in the season of the season of
  <221> misc feature
  <222> (466)
  <223> n equals a,t,g, or c
 <400> 695
 ggttcacagc atatattggt ggattcttgt ccatagtgca tctgctttaa gaattaacga 60
 aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
 actetettee tggcattgat tggtggtace agtggccagt actatgatta tgattttece 180
 ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
 tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
 ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
 gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
 atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac
 <211> 444
 <212> DNA
 <213> Homo sapiens:
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c
<400> 696
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
cactatgaag aagccaaaat tacctgctca gcccacaggg aacccagact ggttggaggg 180
gacattccct gttctggacg tgttgaagtg aagcatggtg acacgtgggg ctccatctgt 240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
gttgtctcta tcctgggggg agctcacttt ggagagggaa tggacagatc tgggctgaag 360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgccc 420
aaaaggaact tgtagccaca gcaa
                                                                                                                                                 444
<211> 411
<212> DNA
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```
<213> Homo sapiens
<220>
<221> misc feature
<222> (104)
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<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
<220>
                  1. 11.
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c
<400> 697
aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagttttat gttttcccag 180
tececteegg gaaeggetga actgtttgge teaggeeegt tgagggggee gggaeegggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgcccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a
<210> 698
<211> 135
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c
 Trade and the care
<220> . . . .
<222> (54)
<223> n equals a,t,g, or c
  in a specificação
<220>
<221> misc_feature : . . . . .
<222> (65)
<223> n equals a,t,g, or c
<220> ...
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
 in the first wat the frequency of sections and the contract of the process of
<400>n698: indigrigação model mango independa e é um page aparamagne. ...
ggcgtgggtt tccgggaggg nacctgnggg gcccagaccc agcgcatccg gtgnagggtg 60
ccctncaact ggaagatgna:tttcgagccg.atttcaagta caaagtttta:gaacttgggg.120
<211> 434 L - Calenda Later Library Today Color - Color Calendary Color
<212>::DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n equals a,t,g, or c
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<223> n equals a,t,g, or c
<220> 1 2 2 2 2 3
```

```
<221> misc feature
   <222> (56)
   <223> n equals a,t,g, or c
   <220>
   <221> misc feature
   <222> (61) ....
   <223> n equals a,t,g, or c
  <220>
  <221> misc feature
   <222> (321) ....
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (368) ... .
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <223> n equals a,t,g, or c
 <221> misc feature
  <222> (391) and the second of 
 <223> n equals a,t,g, or c
 <220>
                          And the second s
 <221> misc feature
 <222> (394)
 <223> n equals a,t,g, or c
                        <221> misc feature
 <222> (427)
 <223> n equals a,t,g, or c
<400> 699
cgtacangag.ctganggnga gcgcgcctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg.ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac
<210> 700
<211> 435
```

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<212> DNA
    <213> Homo sapiens
    <220>
    <221> misc feature
    <222> (118)
    <223> n equals a,t,g, or c
    <400> 700
   geogagegea egeettgeeg eegeeeegea gaaatgette ggttacceae agtetttege 60
   cagatgagac cggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
   gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
   gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
   agtcccaaag taacaaaaga tggtgtgact gttgcaaagt caattgactt aaaagataaa 300
   tacaagaaca ttggagetaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
   ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
   aagattagca aaggt
                                                                                                         Control of the Control of the State of the Control of the
    North Carlo Carre
                                                  and the state of t
   <210> 701
                                                                    . . .

    Confidence active and to the first of the confidence and

  <211> 406
  <212> DNA
                                                                                                    in the second of the continue of the second 
  <213> Homo sapiens: A selection of the original and a selectio
                                                  ರ್ಷ-೧೯೬೪ ಕೆಲಕ್ಷಣ ಅನಕ್ಕು ಅರ್ಥ ಪ್ರಾಥಕ್ಷಿಕವರ ಬಡುವುದುವುದರ ಬರುಕ್ಕು ಬರುಕ್ಕಿ
 <400> 701
  aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
 tgtggccgtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
 tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa aagataaata 180
 caagaacatt ggagetaaac ttgttcaaga tgttgccaat aacacaaatg aagaagctgg 240
 ggatggcact accactgcta ctgtactggc acgctctata gccaaggaag gcttcgagaa 300
 gattagcaaa ggtgctaatc cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
 tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct
 <210> 702 22 2 2 2 2
 <211> 266
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c
<220>
                                 <221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n ēguals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c
<400> 702
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gcagggtcca agcggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaacccccc gatgcctggg gcactggggg 180
ccagcggaac agcggccacg aantctctgc gctangcggt tgaggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag
<210> 703
<211> 244 ......
<212> DNA
<213> Homo sapiens --- --
<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
<220>
<221> misc feature ...
<222> (211)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c
<400> 703
tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tccccacact catcgccctt 120
```

```
accacgctac tectacetat eteceettt atactaataa tettataaaa aaaaaaaaa 180 .
 aaaaaaaaa aaangggggg gccgggnncc natttngccc aaaggggggg ggttttaaaa 240
                                                                    244
 <210> 704
 <211> 462
 <212> DNA
 <213> Homo sapiens.:
 <220>
 <221> misc feature
 <222> (7)
 <223> n equals a, t, g, or c
<220>
<221> misc: feature:
<222> (45)
<223> n equals a, t,g, or c
<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c
<220>
<221> misc feature:
<222> (162)
<223> n equals a,t,g, or c
<220>
<221> misc feature-
<222> (168)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c-
<220>
<221> misc; feature:
<222> (186)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (189.)
<223> n equals a,t,g, or c
<220>
<221> misc feature:
```

```
<222> (206)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (224)
<223> n equals a, t, g, or c
<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c:
<220>
<221> misc feature
<222> (270)
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<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c.
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (339)
```

```
<223> n equals a,t,q, or c
   <220>
   <221> misc feature
   <222> (344)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature agreement of the new months of the contract of the contract
  <222>1(347) * Two agent material statements are made bytes a document of
  <223>In equals a,t;g; or colling to be a present of the
                                                                                                                                                 State of the second
   នេះ នៅ 1937 ពី ១០ នៅនេះ នៅ ១០១០១<mark>០១០១០</mark> នៅមានមានជាជាធ្វើ កម្លាំងនៅនៅប្រែក្រុមប្រជាពេលប្រែក្រុមប្រជាពេលនៅ
                           ာ ကို ကို မြန်မာရေးမှု မြန်မာ့ မြန်မာရေးများ မြန်မာကို မြန်မာရေးများမှာ မြန်မာရေးများကို မြန်မာရေးများမှာ မြန်မ
  <220>
  <221>@misc feature as a common of a magging sead a demand of a megasic fit.
  <222>1(356) 73 (2001) 11 25 (2005) 35 (2005) 25 (2005) 36 (2005) 37
  <223>nn equals a; t; g; or; docation was yearen concentration of the call of the
  <220>
  <221> misc feature
  <222> (358)
  <223> n equals a,t,g, or c
  99 118 STEEL BELLEVIC
 <220>
 <221> misc feature
 <223> n equals a,t,g, or c
     ofice of ∀şamûs a sige car a
 <220>
 <221> misc feature
 <222> (401) / Harrie
 <223> n equals a,t,g, or c
                     - ------
<220>
<221> misc feature
<222> (406) * % water
<223> n equals a,t,g, or c
                               ī.: ", ". <u>-</u>. . . . .
<220>
<221> misc feature
<222> (427) *******
<223> n equals a,t,g, or c
              <220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c
                                in electrical publication
<400> 704
gtaagancta agtgaccete ggetgetgea ggggatetge agegnaetge agecatgggg 60
geocacetgg teeggegeta cetgggegat geoteggtgg anceegacee cetgeagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180
```

```
cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gcccaccaac 240
 tcatccgggt gctcaattnc aaccttaaan cttcccccac ttccttggct tgcnaaccag 300
 gaacgggaca aatnggaata ntnccaaaca ccccanaant tttnttnccc ttaaanantt 360
 tttaaacgga aacgaagggt ntccccccg gaaaaaaaac nggggnaaaa aaaggggaaa 420
 ttttttnccc ccccccgcc cgnggaaatt ttcccccccg tt
                . . . . .
 <210> 705
 <211> 436
 <212> DNA
 <213> Homo sapiens
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gaaggtcagc gccgtaatgg cgttcttggc gtcgggaccc tacctgaccc atcagcaaaa 60
ggtgttgcgg ctttataagc gggcgctacg ccacctcgag tcgtggtgcg tccagagaga 120
caaataccga tactttgctt gtttgatgag agcccggttt gaagaacata agaatgaaaa 180
ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
gcatccacag ccatacatct tecetgacte teetgggggc acctectatg agagatacga 300
ttgctacaag gtcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta 360
tectgattae tttgecaaga gagaacagtg gaagaaactg egggagggaa agetgggaac 420
gagaggttaa gcagct a the transport from the transport of the company and the process 436
                  <210> 706
<211> 487
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (26).
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (34)
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<220>
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<222> (45).
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (51)
           174.
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
```

5 (1) (1) <u>- 1</u>

The second of th

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<220>
    <221> misc feature
    <222>" (72)
    <223> n equals a,t,g, or c
                                                                              in the state of th
                                                                                                     <220>
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                                                                                         . .
   <222> (107)
   <223> n equals a,t,g, or common to the
   <220>
   <221> misc feature
   <222> (120)
   <223> n equals a,t,g, or c
   <220>
  <221> misc feature
   <222> (122)
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  <220>
  <221> misc feature
  <222> (127)
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  <220>
  <221> misc feature
 <222> (130)
  <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (161)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (176)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (190)
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<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
              <222> (229)
            <223> n equals a,t,g, or c
          <220>
          <221> misc feature
            <222> (279)
            <223> n equals a,t,g, or d
          <220>
          <221> misc feature
          <222> (289)
          <223> n equals a,t,g, or c
          <220>
          <221> misč feature 404 (1970) - to legal seam tode-ceast goldstagen ()
                                                                                                                                                                                and the second of the second o
          <222> (293)
          <223> n equals a,t,g, or counties to deheate interest of the professional and a new professional and the contract of the contr

    The first particle as agree with part of the Congress of the Advanced to the Congress.

          <220>(2) In the control of the particle of the particle of the property of the control of the property of the control of the particle of the p
         <221> misc feature with North Page the Machine Additional house the same statement of th
         The area of the principles of the contraction of th
          <223> n equals a,t,g, or compact datable for the second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of a status with the fact a way of the state was the second of the state of the second of the second
                                                                                                                                                                                                                                                                                                                             in kata jin atgir hillikki in nagguri h
       <220>
       <221> misc feature 4 (A 1997) that is figure as profit as a more than the content of the content
       <222> (346)
                                                                                                                                                                                  in the artificial terminal experience of the control of the contro
       <223> n equals a,t,g, or c
     <220>
     <221> misc feature
     <222> (359)
     <223> n equals a,t,g, or c
   <220>
     <221> misc feature
     <222> (371)
     <223> n equals a,t,g, or c
   <220> '
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   <222> (378)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (384)
 <223> n equals a,t,g, or c
<220>
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<221> misc feature

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 <22.0>
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 <222> (453)
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 <220>
 <221> misc feature
 <222> (467)
<223> n equals a,t,g, or c
<220>
<221> misc: feature
<222> (483)
<223> n equals a,t,g, or c
<400> 706
gccagaagaa cactgctgct cttggnggac gggnccagag gaatncagag ntaaaccttg 60
agngcctgcg tncgtgagaa ttcagcatgg aatgactcta ctatttnctg ggatttctgn 120
tnctggntgn aagattgcca cttgatgccg ccaaacgatt ncatgatgag ctgggnaatg 180
aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
atgactggaa tgaaaaactc tacccagtgt ggaagcggng agacatgang tgngaaaaac 300
tgctggaagg gaggccgtg tgcaaggcgg tcctgaccag ngactnacca accettggng 360
ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
canaagg
<210> 707
<211> 414
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c
<220>...
         .. .
The grant of the company of the
<222> (214)
<223> n equals a,t,g, or c
 20>
                            That is the second of the second
<220>
```

```
<222> (219)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a, t, g, or c
<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
<400> 707
ggttgttdtd tggagdageg ttcttttatc tccgtccgcc ttctctccta cctaagtgcg 60
tgccgccacc cgatggaaga ttcgatggac atggacatga gccccctgag gccccagaac 120
tatcttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaatgagc accagttatc tttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtetgt acagecaacg gtttteeeet tgggggettt gaataacace 360
accanggncc ttaaggttga antgtggttc agggccatgc cnattagngg acag
<210> 708
<211> 360
<212> DNA
<213> Homo sapiens
      <220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c
  . .
<220>
<221> misc feature
<222> (335) -
<223> n equals a,t,g, or c
```

```
<220>
 <221> misc feature
 <222> (343)
 <223> n equals a,t,g, or c
     <220>
<221> misc feature
<222> ("352") ....a.m. ....
<223> n equals a,t,g, or c
          :
              <220>
<221> misc feature
<223> n equals a,t,g, or c
  <400> 708
gaaaagccat ctttgcattg ttcctcatcc gcctccttgc tcgccgcagc cgcctccgcc 60
gegegeetee teegeegeeg eggaeteegg eagetttate geeagagtee etgaactete 120
getttettt taateeestg categgatea eeggegtgee eeaccatgte agaegeagee 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
aggtgacatg aggtagccga gaagaggaag aagtngggag aanagagaga anaanaagtt 360
<210> 709 ...
<211> 253
         <212> DNA
<213> Homo sapiens
      <220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
 u to a third ha
<221> misc feature .....
<222> (17)
<223> n equals a,t,g, or c
 . .
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature : :: ::
<222> (72)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

```
<222> (80)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c
<220>
<221> misc feature / 10 3
<222> (183)
<223> n equals a,t,g, or c
 s in Erzin mieskiegt, mae
<220>
<221> misc feature
<222>.(189)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c
      17 1 : . <del>1</del>
<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
 ata in the first address of the first substitution of the large
<220>
             _____
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c
<400> 709
aaagctatnt cggtganact atataaggtn cgcctgcagg taccggtccg gaattcccgg 60
gtcgacccac gngtccgctn cggtggtgaa caagtctcca gcaccatatn tggtttgtct 120
ggcccaccat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
geneaaatng gteettggna teteetteea tetgeecatt aactetegea agtgeeteeg 240
ngaggaaatt cnc
<210> 710
<211> 496
<212> DNA
<213> Homo sapiens
<220>
```

```
<221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (312)
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<220>
<221> misc feature
<222> (342)
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<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (-357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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```
<222> (376)
    <223> n equals a,t,g, or c
    <220> ·
    <221> misc feature:
    <222> (386)
    <223> n equals a,t,g, or c
   <220>
   <221> misc feature=
   <222> (404)
   <223> niequals a,t;g;loraco
   <220>
   <221> misc féature=
   <222> (407)
   <223> nrequals@aptrgp.oruca
  <220>
   <221> misc feature=
  <222> (412)
  <223> n equals a,t,g, or c:
  <220> -
  <221> misc feature-
  <222> (413)
 <2235 n equals a,t,g, or c
 <220>
 <221> misc feature work same requirement for the even empire might
 <223> n equals a,t,g, nor comment of the property of the prope
            TO SEE THE SECOND SECTION OF THE SECOND SECO
 <221> misc feature
 <223> niequalsia,t;g; or c
 <220>
 <221> misc feature
 <222> (463)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c
       -- --
<220>
<221> misc feature
<222> (476) .....
```

```
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (483)
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 <400> 710
 gaattcggca nagnaagagc tcctgacaca acctggagac tggacattat ttgtgccaac 60
 caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
 tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
 gaacetggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaaatg gttacacttc tggtgaatgg atttggaaat ccaaaagant ctgacatcca 300
tggnccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta tttnatncaa tnncctcccn 420
atttaaggtt ttttccgggg tgggcccctt caagggaatn congggctnt tttttnacac 480
ctnaattttt tccccc-
<210> 711
<211> 461 .
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature.
<222> (221)
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```
<223> n equals a,t,g, or c
<220>
                         <221> misc feature ...
                        <222> (337)
<222> (337)
<223> n equals a,t,g, or c
                <220> ...
           gun la callus de marca.
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c
<400> 711.....
ntncaatgga anctecetgg agettteace geggtgneeg geegetetag aactagtgga 60
ttncccgggc tgcaggaatt cgcacgagg tcgcagacac tatgctgcct cccatggccc 120
tgcccagtgt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaaggtg 180
aagaacceca gagggaactg ceetetgeac ggateegetg neecaaagge teeaaggeet 240
atggctccca ctgctatgcc ttgtttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
tegngeetee etggtgaaga geattggtaa eagetaetea taegtetgga ttgggeteea 420
tgaccccaca cagggcaccg agcccaatgg ataaaggttg g
                                                          461
<210> 712 (14.5 1.7.7.7.7)
<211> 392
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
```

Company of the Company of the State of the Company of the Company

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<400> 712
cgcaaccttt ccaagggagt ggttgtgtga tcgccatctt agggaaaaga tgttctcgtc 60
cgtggcgcac ctggcgcggg cgaacccctt caacacgcca catctgcagc tggtgcacga 120
tggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
tcctctagat ctggttaaat gcagangcag gtttgttttt gcatgctgga cttagagcna 360
ttgaagcntg actgangtta agtattagna ta
                                                               392
<210> 713
<211> 734
<212> DNA.
<213> Homo sapiens
<220> ··· ·
          <221> misc feature
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (256)
             .
<223> n equals a,t,g, or c
<220> . ...
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c
<220>
<221> misc feature
             1.4.7. 22 2
<222> (496)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (601)... ...
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (642)
<223> n equals a,t,g, or c
```

<220>

```
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (690)...
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c
<400> 713: Promotive companies appropriately continue process and appropriate continue process.
gagaaaaagg tggaacggca gacggaactt aagcgcaaat ttgaacagat gaaacaagat 60.
aggatçacca gataccaggg tgttaatctt tatgtgaaaa atcttgatga tggtattgat 120
gatgaacgtc teeggaaaga gttttetee tttggtacaa teactagtgc aaaggttatg 180
atggagggtg gtcgcagcaa agggtttggt tttgtatgtt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtggcca caaagccatt gtatgtaget 300
ttagctcage gcaaagaaga gegeeagget cacetcaeta accagtatat gcagagaatg 360
gcaagtgtac ganctgttes caaccetgta atcaaccet accagecage acctecttea 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca gggtgccata actcatccat 540
tocaaaatat goooggtgot atocgoocag otgotootan aacaccattt agtactatga 600
naacagette tteteageaa catettaatg cacagecaca anttacaatg cacaneetge 660
tgttcatgtt caaggtcagg aacctttgan tgcttccatg ttngcatctg cccccccca 720
aaacaaaacc aatt
                                                              734
<211> 500
<212> DNA
<213> Homo sapiens
<221> misc feature
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220> ...
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
```

<221> misc feature

```
<222> (7)
<223> n equals a,t,g, or c
      <220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
<220>
        <221> misc feature
<223> n equals a,t,g, or c
        . ** . ...a
<220>
<221> misc feature
<222> (38) ....
<223> n equals a,t,g, or c
<220>
       <221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<221> misc feature
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (470) ... :..
<223> n equals a,t,g, or c
<400> 714:
              region of grant to the recent section of the reserving as
tantnnntta acceteacta anggenacaa agnetngnge theacegegg tggeggeege 60
totagoaact agtggatoco cogggootgt caggaattog gcacgagotg ggacaagoga 120
gtttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
aaaacacaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccca agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gattaccttg aattggatac aattaaaaat ctcgtcaaaa aatattcaca 420
```

```
gttcataaac tttcctattt atgtatggng cagcaagact gaaactgttn aggagcccat 480
  ggaggaagaa ggagcagcca
  <210> 715
  <211> 491
  <212> DNA
  <213> Homo sapiens
    <220>
  <221> misc feature
  <222> (2): :=: ···; ·
  <223> n equals a,t,g, or c
                       1987 A. A. A. A. A. A.
  <220>
  <221> misc feature
  <223> n equals a,t,g, or c
    <sup>ବ୍ୟା</sup>ର ଓ ପ୍ରସ୍ଥିତ ହେଇଥିଲା ଅଟି ଓ
 <220>
 <221> misc feature
 <222> (58) *******
  <223> n equals a,t,g, or c
 s – Dr. A. Hawala (427), il signif
 <220>
 <221> misc feature
 <222> (62)
 <223> n equals a,t,g, or c
                          Community to a group of
 <220>
 <221> misc feature
 <2223. (654) 1177 1181270 11814 1841. Line in the complete series of the complete series of
 <223> n equals a,t,g, or c
in the install all areas and in the insight of
<220>
<221> misc feature
<222> (116)
 <223> n equals a,t,g, or c
                           4 - 4 A L - 17 A
<220>
<221> misc feature
<222> (248) -----
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (250)- - - .
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (271) ....
```

```
<223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (278)
  <223> n equals a,t,g, or c
  <220>
 <221> misc feature
  <222> (285)
  <223> n equals a,t,g, or c
                 <220>
  <221> misc feature
 and Teach of the Control of the Cont
                                                          <221> misc feature
 <223> n equals a,t,g, or c
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (319)
 <223> n equals a,t,g, or c
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 <222> (321)
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<221> misc feature
<222> (326)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
<220> _ _ _ _ _ ....
<221> misc feature
<222> (353)
```

<223> n equals a,t,g, or c

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<220>
  <221> misc feature
   <222> (360)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (398)
  <223> n equals a,t,g, or c
<220> ~ bijdališ nichipi om -
  <221> misc feature
  <222> (410)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (422)
  <223> n equals a,t,g, or c
                        ing a section of the 
 <220>
  <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c
 <220>
                      , that 1 70%, 9% is
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c
 <400> 715
 gnanaaatgt ggtggaggct cagtttgata gccgggttcg tgcaacagga cacagttntg 60
 anaantacaa caagtgggaa acgatagagg cttggactca acaagtcgcc actganaatc 120
 cagccctcat ctctcgcagt gttatcggaa ccacatttga gggacgcgct atttacctcc 180
 tgaaggttgg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
 tgccaganan ttggatttct, ccctgcattc ngccagtngg ttttntaaaa aangcggttc 300
 ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
 ttcccgccct gtggccccaa tattgaaggg caacttcnac cccgggaacn aaaacccaat 420
 tntggaaaaa aaaacccccc cccccctgg tgggattctt gctttggttg ggnnccaccc 480
caaaaaaatt t
                                                                                                                                                                           491
<210> 716
<211> 331
<212> DNA Time to the state of the entry to the entry to be a sign of the second
<213> Homo sapiens
<2.20>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (326)
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gtaaagccgg ggcagcagcc ggcggtccgg gtgtaagcgg cgtgtgcgtg tgcaagagcc 60
gctacccggt gtgcggcagc gacggcacca cctacccgag cggctgccag ctgcgcgccg 120
ccagccagag ggccgagagc cgcggggaga aggccatcac ccaggtcagc aagggcacct 180
gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
angtgtactt gagctgtgag gtcatcggaa tcccgacacc tgtcctcatc tggaacaagg 300
tanaaagggg tcactatgga nntcanagga c
<210> 717
<211> 486
                The Control of the Control
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (5)
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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,q, or c
<220>
<221> misc feature
```

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<222> (38)
<223> n equals a,t,g, or c
<220>
       ٠.,
<221> misc feature
<222> (42)
<223> n equals a,t,q, or c
       1.11.11.11.12
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
 y in the last transition
<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
 ing sa Sabbasa
<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c
e de la composição de la c
<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c
      and the state
<400> 717
tatenttaet aagggtacaa agttngggte tnecacengg tngaggaceg etectageaa 60
ctagtggntc ccccgggnct gcaggaattc ggcacgagna tattagncag cggttattcg 120
gtgagcggtg gtggtttatt cttccgtgga gttaagggct ccgtggacat ctcaggtctt 180
cagggtette catetggaac tatataaagt teagaaaaca tgtetegaga tatgaeteea 240
ggaccactat attttctcca gaaggtcgct tataccaagt tgaatatgcc atggaagcta 300
ttggacatgc aggcacctgt ttgggaattt tagcaaatga tggtgttttg cttgcagcag 360
agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
. . . . . . . .
                                  12.75
<211> 479
<212> DNA
<213> Homo sapiens
           The second second of the contract of the second
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<400> 718
tegacecacg egteegeage ceacecatee aegttgacte atecteagag acgaategae 60
```

```
acceteaact cagatggata cacceetgag ecagacaaac egeggeegat geecatggae 120
 acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
 ctgaagegeg ataaceteet catagetgae attgaacttg getgeggeaa etttggetea 240
 gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
 aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
 cagctggaca acccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
 ctggtcatgg agatgntggg ggcgggcgct gcacaagttc ctggtcggca agaaggaag 479
 <210> 719
 <211>-572
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (418) .....
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (421) ....
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c
<400> 719
gcgtgcccat gagaatgaga tcaccaaagt gcgaaaagtt actttcaatg gactgaacca 60
gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120
```

```
tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
 tecteaaggt ettecteett eeettaegga attacatett gatggeaaca aaateageag 240
 agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
 cagcatetet getgttgaca atggetetet ggccaacacg ceteatetga gggagettea 360
 cttggacaac aacaagctta ccagagtacc tggtgggctg cagagcataa agtacatnca 420
 nggtggctac cttcataaca accatatete tgtagttgga tcaaagtgac ttetggccae 480
 ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
 ggccangact ggggagaana cagecatcca cc
 <210> 720
 <211> 487<sub>0</sub> Turbure
 <212> DNA
 <213> Homo sapiens - 25 =
 <220>
<221> misc feature
<222> (3):
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c
<22.0>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> mise feature
<222> (467)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c
<400> 720
ggntaaatca gaactcgaat ggccttgttt tcttgctctg gggctcttat gctcagaaga 60
```

```
agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
 tgtcagtgta tagagggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
 agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
 ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
 ttaattetta agtaetetge ataaggggga aaagetteea gaaageagee atgaaceagg 360
 ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
 tgtctttctc tgcaacatgg cttcggncta aaatatgcnn aagacannat gagggccaat 480
 acttaat
 <210> 721
 <211> 464
 <212> DNA .
 <213> Homo sapiens
<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (415)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

```
<222> (443)
<223> n equals a,t,g, or c
<220>
        and the same of
<221> misc feature
<222> (448)
<223> n equals a,t,q, or c
<221> misc feature
<222> (455):11: 1 - 1 | 12 | 21 | 2
<223> n equals a,t,g, or c
<400> 721 i tjubio sauj djilusjinua tyrasodaaj iesttyphyd ywydmosugu eń
eggacgegtg ggegtetget ggggcacetg aaggagaett gggggcacec gegtegtgee 6010
tectgggttg tgaggagteg cegetgeege cactgeetgt getteatgag gaagatgete 120
geogeogtet ecogogtget gtotggeget teteagaage eggeaageag agtgetggta 180%
gcatcccgta attitgcaaa tgatgctaca titgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360:
atcntggttt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaadact ctccanctac ggntccgntt atttnccggg cttc
<210> 722
<211> 320
<212> DNA
<213> Homo sapiens
    .
Promisa o nastram
<220>
<221> misc feature , a, or ;
<222> (12)
<223> n equals a,t,g, or c
      TEND ANDLE
<220>
<221> misc: feature ...
<222> (43)
<223> n equals a,t,g, or c
     200 to the 124
<220>
<221> misc feature ... ...
<222> (113)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
<220> -----
<221> misc. feature: 3. 31 3
```

<222> (152)

```
<223> n equals a,t,g, or c
 <220>
 <221> misc feature .
 <222> (153)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
 <222> (182)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c
<400> 722
gttgcacage anctgcacge gccgtggctc cggatctctt cgnctttgca gcgtagcccg 60
agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgccttcatt cagacccage anctgcacge anneatggct gacacattce tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggccgg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt
<210> 723
```

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<211> 152
 <212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (87)
<223> n equals: a_{\nu}.t_{\nu}.g_{\nu}, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a, t,g, or c
<220>
<221> misc feature
<222> (127)
<223> n equals apt,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<400> 723
gcccaccatg gctgcaatcc gaaagaagct ggtgatcgtt ggggatggtg cctgtgggaa 60
gacctgcctc ctcatcgtnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg
                                                                   152
<210> 724
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (463)
<223> n equals a_r t_r g_r or c
<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

```
<222> (553)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (559)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
 <222> (569)
<223> n equals a,t,g, or c
<400> 724
gctgctatgt tcaatataag aaatattgga aagacgctcg tcaccaggac ccaaggaacc 60
aaaattgcat ctgatggtct caagggtcgt gtgtttgaag tgagtcttgc tgatttgcag 120
aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
tgcctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catggtcaaa 240
aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
gctcagcacc aacaggtccg ccaaatccgg aagaagatga tggaaatcat gacccgagag 420
gtgcagacaa atgacttgaa agaagtggtc aataaattga ttncagacgc attggaaaag 480
acatagaaaa ggcttggcaa tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
aatgctgaag aanccaagnt tgaatgggna aac
<210> 725 -
<211> 403
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<400> 725
gcttgaaant aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
ageccagege geetegtege catgeetegg aaaattgagg aaatcaagga etteetgete 180
acagecegae gaaaggatge caaatetgte aagateaaga aaaataagga caaegtgaag 240
tttaaagttc gatgcagcag atacctttac accctggtca tcactgacaa agagaaggca 300
gagaaactga agcagtccct gcccccggt ttggcagtga aggaactgaa atgaaccaga 360
cacactgatt ggaactgtat tatattaaaa tactaaaaat cct
                                                                  403
<210> 726
<211> 502
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
```

```
<222> (7)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c
<220> hall free lies
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
....
<220> who we called the factors as
<221> misc feature
<222> (256) 4 4 4 6 11 5 6 6
<223> n equals a,t,g, or c
111 ... 1 ...
<220> pulsur in hydgenholm hadgadulada in tolfnyn sig ille lydythig o'r tol yaren h
<221>qmişc feature i nittataya gapa-huyadd na a nabha yyabhya aga
<222>d(281) support the consideration of as page thigh the strong the action production
<223>cmrequals(a,t,g; orpeasonud lakoutolaksa organisasion dela jiilegg .
 មានប្រទិប្បីដោយប្រជាជាមាន (ស.ស. ១ ស.ស.ដាជានានានា ២០ ១០៩០៨៤៦ ខាងស្រា ២០១២ ១០១៨សំពេញនេ
<220>: Unitablicate mas againstiblian dipagnage of third terms of egoptimists.
<221> misc feature and
<222> (380)
<223> n.equals a,t,g, or c
<220> --
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
intin pusco secura
<220>
<221> misc feature ... . . . .
<222> (428)
<223> n equals a,t,g, or c
 <220>
<221> misc feature ...
<222> (456)
<223> n equals a,t,g, or c
<400> 726
cgcaagnneg anactaacce teactaaagg gaacaaaage tggageteea cegeggtgeg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gccatcaggt 120
aagccaagat gggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccagctctct gctctccaca 240
gggctccccg ccccanccgg cctgataaag cgcgccgact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtggtggccg aaaacgccca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtttg ctcgaagcct 420
```

```
tragtcentt gragaggage gagetggacg cractntggg getetgagag teetgaatte 480
 ttactgggtt ggtgaagatt cc
                                                                    502
 <210> 727
 <211> 361
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
<400> 727
ggcacgagcg aacgcgnaga gcacgccatg aaggcctcgg gcacgctacg agagtacaag 60
gtagtgggtc gctgcctgcc cacccccaaa tgccacacgc cgccctcta ccgcatgcga 120
atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
aagaagatga agaagtette aggggagatt gtetaetgtg ggcaggtgtt tgagaagtee 240
cccctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccggag cggcacccac 300
aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacgqn 360
<210> 728
<211> 401
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (234) ---
<223> n equals a,t,g, or c
<220>
<221> misc feature
<2225 (251) *** **** ** ** ** **
<223> n equals a,t,g, or c
<2205 This Tracume
<221> misc feature
<223> n equals a,t,g, or c
<221> misc feature
<222> (332) - 1 - 1 - 1 - 1 - 1 - 1 - 1
<223> n equals a,t,g, or c
<220> 1200 Youthane
<221> misc feature
<222> (334) -- ******* -- *
<223> n equals a,t,g, or c
<221> misc feature
<223> n equals a,t,g, or c
<220> ***** i...:423
<221> misc feature
<222> (389)**** *** *** ***
<223> n equals a,t,g, or c
          --- 1212 f --
<400> 728
gaagangete geetetagtg teeteegetg tggeaagaag aagtetggtt agaceecaat 60
gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaaggtaca gccnatgccc 240
gaatgccaaa naaggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c
<210> 729
<211> 530
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c
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<222> (12)
<223> n equals a,t,g, or c
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<222> (527)
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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcc gccatcttcc 120
agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatgttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg ccccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccca gcatgctgtt ggcattgttg 360
taaacaaaca agttaagggc aagattettg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct
<210> 730
<211> 375
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
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<222> (55)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
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<222> (97)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
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<221> misc feature
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<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
<220>
<221> misc feature
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 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (206)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (229)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (333)
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<223> n equals a,t,g, or c
  <220>
  <221> misc feature
                                                                                                    Carrier Committee of the Committee of th
  <220> .
  <221> misc feature
  <222> (367)
  <223> n equals a,t,g, or c
 Salah dan kacamatan Palen
  <400> 730
  gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtggtgc ttgtnctggc 60
 tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
 naanngcccc tacagccatg cnctggtggc tgggaattga accgctaccc ccgcaaatga 180
 nongotgoon tggggcanga agaagntogo caggaggtoa aagatatant cttttgtgaa 240
 ngtgtgtnac tacaatcacc tnatgcccnc aaggtactct gtgngatatt ccccttgggg 300
 caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
 aaggagnccc aggtc
  1.00
 <210> 731<sup>-6</sup> 3.0 3 1.0 0 0 1
 <211> 207
 <212> DNA
 <213> Homo sapiens
 <220> 0 1 National Total 15 15 1
 <221> misc feature
 <222> (143)
 <223> n equals a,t,g, or c
                                internal contraction of
<220>
<221> misc feature
<222> (177)
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c
                                                                          <220>- ·
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (207)
<223> n-equals a,t,g, or c
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<400> 731
 gcgccgctgc gaagggagcc gccgccatgt ctgcgcatct gcaatggatg gtcgtgcgga 60
 actgctccag tttcctgatc aagaggaata agcagaccta cagcactgag cccaataact 120
 tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
 agccggnagc cgacggcaaa ngtgtcn
                                                                207
<210> 732
<211> 702
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (620)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (628)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c
<400> 732
ggcagaatgn ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac 60
gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga 180
actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaa aggaataagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
```

```
tegtgactgg gaaaaccetg egttacecaa ettaategee ttgcagcaca teccettteg 600
 ccagctgcgt aataacgaan aggcccgnac cgatcgcctt tccacagttg cgcancctga 660
 atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg
                                                                   702
 <210> 733
 <211> 441
 <212> DNA
 <213> Homo sapiens
<220>
 <221> misc feature
 <222> (1) ...
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9.9).
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c :
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<221> misc feature
<222> (152)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (185)
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 <220>
 <221> misc feature
 <222> (212)
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (260)
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 <220>
 <221> misc feature
 <222> (310)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c
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 naattaaccc tcactaaagg gngcaaaagc tggtgctcca ccgcggtgcg accgctctag 60
 anctagtggt tececeggge tgeaggattt eggeaegane negtgeagat tegageanag 120
 gagegnaagg gaaegteate gtttggaaag entegeaata agaegeacae gttgtgeege 180
 cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
 gccaagcgca agagaaagtn taactggagt gccaaggcta aaagacgaaa taccaccgga 300
 actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
 ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
 caacgattag tcatgcaata a
 <210> 734
 <211> 379
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (324)
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<223> n equals a,t,g, or c
   <220> .
   <221> misc feature
   <222> (342):
   <223> n equals a,t,g, or c
   <220>
  <221> misc feature
  <223> n equals a,t,g, or c
       and the first of the control of the community of the control of th
  o valueto de la orgó escallo de secolo de la
  <223> n equals a tig. or collection of the light of the compare the collection of th
                                                        in a transfer of the second
   <400> 734
  ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgtcg caataagacg 60
  cacacgttgt gccgccgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
  aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
 cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
 catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
  ttcatcttta agaatgtcaa cgnntttagt catgcaataa antgtnctgg ggttttaaaa 360
  aattaaaaga aaagnaaaa
  <210> 735
 <211> 187
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (172)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (176)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c
<400> 735
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atggtgaaga 60
aaattgaaat cagccagcac gccaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgage tgtggggate tggcactgtg gttcctgcat gaagacagtg gntggnngng 180
cctgnac
<210> 736
<211> 576
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals: a,t,g, or:c:
<220>
<221> misc feature
<222> (440)
<223> n.equalsca,t,g,.orcc:
<220>
<221> misc feature:
<222> (444)
<223> n equals a,t,g, or c
<220>
<221> misc feature:
<222> (452)
<223> n equals a,t,g, or c
<220>
<221> misc feature:
<222> (466)
<223> n equals a,t,g, or c.
<220>
<221> misc feature
<223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c
<220>...
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c
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<400> 736

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 ggtcatcgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
 tacaagaaga ccaaggaagc tgttttgctc cttaagaaac ttaaagcctg ggaatgatat 180
 caaaaaggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaaccgt 240
 cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
 ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
 naagettget neetggtggg geatgtgggg aegtttnegg cattgggang gaaatggett 420
 ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
 ttaactacan tetteecagg caccaagatg gattaatana gatettggca gaatetggaa 540
 aagcccagag gtnccaaggg cccttcgggc accagc
 <210> 737
 <211> 297
 <212> DNA
 <213> Homo sapiens
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<221> misc feature
<222> (7)
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<222> (243)
<223> n equals a,t,q, or c
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<221> misc feature
<222> (254)
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<220>
<221> misc feature
<222> (261)
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<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<400> 737
gctccgncat ggcgtgtgct cgcccactga tatcggtgta ctccgaaaag ggggagtcat 60
ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
caggicatea gactagiget gagicitiggg gractiggeag agetigget egaatteeca 240
```

```
ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaaac atgtgtc 297
<210> 738
<211> 354
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
<220>
      1.17
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c
<220> ...
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c
   <220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c
<220>
           <221> misc feature
<222> (98)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature · .
<222> (193)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
 <222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<400> 738
gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
actctgaagg gacncacagn tatngtgaag ggccccanag gaaccctgcg gagggacttn 120
aatcacatca atgtataact cagcettntt ggaaagaaaa aaaagagget eegggttgae 180
aaatggtggg gtnacagaaa ggaactggct accgttcgga ctatttgtag tcatgtacag 240
aacatgatca agggtgttac actgggcttc cgttacaaga tgaggnctgt gtatgctcac 300
ttncccatca acgttgttat ccaagagant gggtctattg ttgaaatcca nant
<210> 739
<211> 504
<212> DNA
<213> Homo sapiens
<400> 739
cogcoatcat gggtcgcatg catgetcccg ggaagggcct gtcccagtcg gctttaccct 60
atcgacgcag cgtccccact tggttgaagt tgacatctga cgacgtgaag gagcagattt 120
acaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
atggtgttgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaagtcta 240
agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
attggaaata tgaatcatct acagcctctg ccctggtcgc ataaatttgt ctgtgtactc 480
aagcaataaa atgattgttt aact
<210> 740
<211> 399
<212> DNA
<213> Homo sapiens
<400> 740
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ggacccgcca acatgggccg cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagatogoca ttatococag caaaaagoto ogcaacaaga tagcaggtta ogtoacgoat 180
ctgatgaagc gaattcagag aggcccagta agaggtatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttggatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac
<210> 741
<211> 431
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<400> 741
aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
ageogetget gteagggaca tatetgaage aagegtette gaegeetaeg tgetteecaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgttaggaat 240
cgatcccgct aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tanttttaaa aaaaaaaaa aaacccnagg 420
ggggncccgt c
                                                                 431
<210> 742
<211> 357
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (178)
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<223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (240)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c
<220> .
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<400> 742
gtgcagcggt tcattaaaat cgatggcaag gtccgaactg atataaccta ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gtnaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg
<210> 743
<211> 249
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
            : .. .
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c
<400> 743
ggggcggtat gccgccaaac gcttccgcaa agctcagtgt cncattgtgg agcgcctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
cnagcatgcc ttcgagatca tacgcctgct cacaggcnaa gaaccctctg caggtcctgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana
<210> 744
<211> 383
<212> DNA -
<213> Homo sapiens
```

```
<400> 744
 gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtacg agtcccacta 60
 tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
 aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
 aatcagcagt ctcctggagg agcagttcca gcagggcaag cttcttgcgt gcatcgcttc 240
 aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
 ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
 gtaataaagg tgtttattgg ttt
 <210> 745
 <211> 452
 <212> DNA
 <213> Homo sapiens
<220>
 <221> misc feature
<222> (314)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

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<222> (435)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c
<400> 745
gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgtcat gcccagccac ttcagccgag gctccaagag 300
tgtggcccgc cggntcctcc aagccctngg aggngctgaa aatggtggaa anggaccaag 360
atggcggccc gcaaactgac acctcaggga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc
<210> 746
<211> 114
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (103)
```

```
<223> n equals a,t,g, or c
 <400> 746
 tgcatgctgg ngctggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac
<210> 747
<211> 165
<212> DNA
<213> Homo sapiens
<400> 747
ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcatcggga 120
cagcccgtgg cagaatctgc tcctgggaca cccacagggg ggctg
                                                                    165
<210> 748
<211> 583
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (480)
 <223> n equals-a,t,g, or c
 <220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,q, or c
 <220>
 <221> misc feature
 <222> (541)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (543)
<223> n equals a,t,g, or c
<220>.
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c
<400> 748
ggctagaaga tggttttgga gagcacccct tttaccactg cctggntgca gaagtgccga 60
aagagcactg gactccggaa ggacacagca ttgttggttt tgccatgtac tattttacct 120
atgacccgtg gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
gaggetttgg cataggatca gaaattetga agaatetaag ceaggttgea atgaggtgte 240
aaaagaagag gtgcttctga tctgtccagt gaagaaggtt ngagacttgt taagaatcga 360
caaggagtot tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctggttggn 480
agtgaaatta atttaaatga gcacccattt caaaagcttt aattaccaag tgggcgnttg 540
ntnccntgtt ttgaaaattg aaggtettgt tttaaaaggn gge
<210> 749
<211> 419
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (29)
223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
```

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<400> 749
 acneggagge ttettnatta eggnegggnn tgatgaggga aagetggtga egeetgeagg 60
 tgaccggtcc ggaattcccg ggtcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
 teteegetee cagacatggg teeetegget teetgeeteg gaagegeana geaggeateg 180
 tgggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
 cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
 ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtgg 360
 tttgtgggca ttgttngcta cgttggaaaa ccctcgangg ctccggaact tcaagaatn 419
<210> 750
<211> 507
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<400> 750
ggccgaacat ggagatcaag attatatctg gcactgcatt gatctcttct tagatttcat 60
tactgtette agaaaaetea tgatgateet ggeeatgaat gaaaaggata agaagaaaga 120
gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccaccctca 180
tttccttttt gcacacatta caggtggtgt gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
atatagtttg gagtttggct tcatcttcct ggggttcccc tcactccctt ttttggcaac 360
cccatctgta gcctcttcct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaacttca ggagcccgct ttnccaccca gcttcattca cccantggac 480
ctgaactgtt tgggtananc ccnccgg
                                                                   507
```

<210> 751

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<211> 435
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (199)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c
<220>
<221> misc feature-
<222> (257)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c
<220>.
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (331)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (355)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (363)
 \leq223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c
<400> 751
nactggaagt neteegggag aanggatete nacngeggtg eeggaegete tagaactagt 60
ggatcccccg ggctgcaggt agcctgagct tagctcagcg ccggggcttn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggcttnc 240
agnocceptca cottgentge etgecteggg agecaggget gggcacetgg cagtneetge 300
ggtcccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgntnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaa acctg
                                                                   435
<210> 752
<211> 591
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (319)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (579)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (586)
 <223> n equals a,t,g, or c
 <400> 752
 geggeacgag gegeecagag agacaceaga gaacecacea tggeeceett tgageecetg 60
 gcttctggca tcctgttgtt gctgtggctg atagccccca gcagggcctg cacctgtgtc 120
 ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
 gggacaccag aagtnaacca gaccacctta taccagcgtt atgagatcaa gatgaccaan 240
 atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacacccc 300
 gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
 attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
 tggaacagcc tgagcttagc tcagcgccgg gncttnacca agacctacac tgttggctgn 480
 gaggaaatgc acaagtgctt ccctgtttat ccatcccctg caaactgcag agtgggcact 540
cattgcttgt aggacngacc agctcctacn angctcttna aaaggncttt c
<210> 753
<211> 547
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c
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<400> 753
aagcacttgt ccagatgage agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat accoggacto oggaccacaa gcactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccytcatc tetyttyete atgggeatge aagaacactg aagetetttt ceatgtyttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaatttttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc
<210> 754
<211> 384
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<400> 754
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacace gaggtggttt gtgctccccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggctgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagecetg geatgateaa agaetgegga ceaegtgggt ggteetgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat
                                                                   384
<210> 755
<211> 253
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (244)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (252)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (253)
 <223> n equals a,t,g, or c
 <400> 755
 tgtagatctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
 cagtgcaagc agccctgcca gccacctcct gtgtgcccca cgccaaagtg cccaagagcc 120
 atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
 cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagen 240
 gaanttcccc cnn
 <210> 756
 <211> 183
 <212> DNA
 <213> Homo sapiens
 <220>
<221> misc feature
 <222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (57)

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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (79)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c
<220>
'<221> misc feature
<222> (141)
<223> n equals a,t,g, or c
<220>
<221> misc feature
·<222> (144)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<400> 756
ggcanaaana aggtaggaat aaggctagac ctttaacttc cctaaggnat acttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaatttttt ttttttaaaa naantnonga aagcattttg aaaaaaaaa aacaaaaaa 180
aag
                                                                   183
<210> 757
<211> 99
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (12)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (33)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c
<400> 757
agcetttaat anateatata ggaaantggt agntgeagta eggtnggaat teegggtgae 60
tcagcgtccg ggattgnanc anctgggatt ggagtttgg
                                                                    99
<210> 758
<211> 60
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<400> 758
<210> 759
<211> 66
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c
<400> 759
ccntnn
```

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<210> 760
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (409)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c
<400> 760
tacagatgga gcaaatgtcc taacagagaa atagaggtga tgctgctaaa gggagaaatg 60
ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcatgagat 120
tttggaagaa gttttttact ttggtttagt cttttttcc ttcctttta ttcagctaga 180
atttctggtg ggttgatggt agggtataat gtgtctgtgt tgcttcaaat tggtctgaaa 240
ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaagt aaacttgtgt attgagctta actgtatttc agtatttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtotgaat gangacttta tttcatggat tataataagg aatgaggtaa ttngngnotc 480
acattca
                                                                   487
<210> 761
<211> 422
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c
<400> 761
gaaaaggcta aaatcatgaa ttagttacaa gcaacagtac caacttatgt gacccctgaq 60
gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc tttcatcttc tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatcgcattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaaggtggt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
                                                                    422
<210> 762
<211> 375
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (315)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (373)
 <223> n equals a,t,g, or c
<400> 762
tttgaccact tgccaagtcc ctgtctcttt cagacacaga caagcttcat ttaaattatt 60
tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taatttataa 120
ctttattgtt acttcatcag tgtttccttt tgaaaggtgt atgaattcat tacattttta 180
ttctaatgta ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt
                                                                   375
<210> 763
<211> 372
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (354)
 <223> n equals a,t,g, or c
 <400> 763
caatatgtag cttactcttt ttttcccccc ttcttaaacc accagtggtt catttttaag 60
attttttcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctcttta gtaggaactc tttgttttta actcttggta tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact tttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtnccctat gggnaattac 360
cttgggaaag tc
                                                                    372
<210> 764
<211> 195
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c
<220> -
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<400> 764
cggacgcgtg ggcggacgcg tggggaaagg taagctctag cttaangtct angatttgtn 60
ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc
<210> 765
<211> 103
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (91)
 <223> n equals a,t,g, or c
 <220>
.<221> misc feature
 <222> (94)
 <223> n equals a,t,g, or c
<400> 765
 attaataatg gataccattc taaacaagtn aatccaagtt aagcccgtta aggagaaaga 60
 aattaaggtt agcggntcat gtncaagctg ngtntgaaag tgg
 <210> 766
 <211> 538
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (445)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c
<400> 766
cccgcgcggg cgcaggcggc cggaatggcg gggcccggct ggggtccccc gcgcctggac 60
ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaagaagg acactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac tttcagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catcintitc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360
```

```
ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caaggggggg 420
 gccggaaacc ttggtncttc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
 ttcttggccc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg
 <210> 767
 <211> 415
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<400> 767
ctttcccaag ggaaacactc agctttctat agaaaattgc actttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcaccc agtggttttt gttaggtcaa atgttcctgt 120
atagtttttg caaatagagc tgtatactgt ttaaatgtag caggtgaact gaactggggt 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtggtttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtatttaaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg
<210> 768
<211> 425
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (423)
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<223> n equals a,t,g, or c
 <400> 768
ctttgtacag gggctcagtt cagggaagag ttgagcttct ctctgagggg tccctagggg 60
gacccctcag gccaggccct gatccagttc tccagggtct ttctcagggt caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tggaagtttg tctccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaaccca ggcctgacaa tcccgtatgt nggaagtaga 360
actgaccccc aacacccaga ngtcatgtng aaatactcac ggtatacatg gaaaaaaaa 420
annaa
<210> 769
<211> 256
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
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<223> n equals a,t,g, or c

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<220>
  <221> misc feature
  <222> (163)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (200)
 <223> n equals a,t,g, or c
· <220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (235)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (250)
 <223> n equals a,t,g, or c
 <400> 769
 attctagatg tagcttgtgc agatgtagca gganaatagg aaaacctacc atctcagtgn 60
 gcaccagctg gcctcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
 cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
 tggagttttc taattctctn ttttgggaat ngtagattgt ttttgaaatg ctttnacgat 240
 gttaaaatan tttatt
 <210> 770
 <211> 316
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (158)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220> .
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c
<220> -
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<400> 770
ggnagaggtt caacgatgtg gtgtggcatg taagctggtc catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtncc agctgaagca ctncatgtta 180
```

```
cgaggaagaa actacaagtn atgttcaaat ctattttggg tcattttnat gtacctttgg 240
 gttcaggcat tatttggggg gttttnnttc caaaggaact naantaaagt natnttgctt 300
 attaaaaaa ggaaaa
<210> 771
<211> 68
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c
 .223> ...
<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<400> 771
caaaagengg ageneeaceg enggegaceg enetanaact agtggateee eeggnetgea 60
ggaattca
                                                                   68
<210> 772
<211> 258
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (17)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (42)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (189)
<223> n equals_a,t,g, or c
<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (25.0)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c
<400> 772
nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagto ttttnottoo toocaccoot agggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaacccgggg acagnggacg caggncagac 240
taggaggan ccgggang
<210> 773
<211> 587
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (572)

712

```
<223> n equals a,t,g, or c
<400> 773
 ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgcccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccccttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggt 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttgttc aggtatccag 300
ggacggttet cacctetgte tttteteett geaggtgaet cetgeacetg egeeggetee 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctctt 420
cctctacccc ttcctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgccggga aattggtggc ctcctcagtg atccntatca 540
aggagaagca aggaatccnt aattnccggn gnccgttgta cttaact
<210> 774
<211> 89
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

```
<222> (86)
 <223> n equals a,t,g, or c
 <400> 774
 ggcagaggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaa aaanannana aanaantat
                                                                    89
<210> 775
<211> 113
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c
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<400> 775
ggtccggcgn ggtggaggga aacgcctccn thtctatata aggaatttcc cggtgthtnc 60
 gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgntctg ttt
 <210> 776
 <211> 66
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<400> 776
ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng
<210> 777
<211> 441
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<400> 777
atttgtatga aagaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60
```

```
aatttacttt tttgcctaat taggaggaag cttggtcata aggaaaaaga gctgtgttta 120
  ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
  tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
  agctgaaggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
  ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
 catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaac ncgagggggg gcccggtacc 420
 caattcgccc taaagngagt c
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 <211> 483
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. <220>
 <221> misc feature
 <222> (471)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (472)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (478)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (481)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c
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gcttactttt aaccagtgaa attgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaatttatt aatgcaaaca gtacctaaca aacccacagg 120
```

```
toctaaacta ccaaacctgc attaaaaatt toggttgggg cgacctogga gcagaaccca 180
 acctccgage agtacatget aagacttcae cagtcaaage gaactactat actcaattga 240
 tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
 agtocatato aacaataggg tttacgacot cgatnttgga tcaggacato ccgatngtgc 360
 agccgctatt aaaggttcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
 cggagtaatc caggtcggtt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
 nng
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<223> n equals a,t,g, or c
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<221> misc feature
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<220>
<221> misc feature
<222> (389)
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coetetteec ggetecaget cegeogecag étecageett tgetececet cecaaagtee 60
ceteceegga geggagegea cetagggtee etetteegte ecceeagece agetaceegt 120
tcagaccagc agectcgggg ggcacccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc cccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgctc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggntttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn
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<210> 780
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 <212> DNA
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tataaaatat tingitaaat attiattaan giggactata ganigcaaac inccattinc 180
cngntaaact tgtttttaaa ttatggccnt aggtaaccca tatngtaggg tattaatttc 240
cttggaacca aacca
                                                                    255
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<211> 348
<212> DNA
<213> Homo sapiens
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<222> (3)
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<221> misc feature
<222> (28)
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 <222> (32)
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<221> misc feature
<222> (75)
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<221> misc feature
<222> (123)
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<221> misc feature
<222> (135)
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<221> misc feature
<222> (178)
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<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (298)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
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<220>

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   <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (345)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (346)
  <223> n equals a,t,g, or c
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  tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
  concected adathecata the adags and the test the agent the test and the
  tnaaggggct ccactgactt cctaggccct gtaaatttaa accagtcttt aaggttttqc 240
  caggaaagtt cccttcttc caagtgggtt tttccaaatg ggcacaatgg caagcnanac 300
  agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc
                                                                                                                                                                                                                   348
  <210> 783 -
  <211> 160
 <212> DNA
  <213> Homo sapiens
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 <221> misc feature
 <222> (29)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (47)
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<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
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<221> misc feature
<222> (82)
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<223> n equals a,t,g, or c

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<220>
   <221> misc feature
  <222> (131)
  <223> n_equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (141)
  <223> n equals-a,t,g, or c
  <221> misc feature
  <222> (142)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (144)
  <223> n equals a,t,g, or c
 <221> misc feature
 <222> (146)
 <223> n equals-a,t,g, or c
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 atctgatgaa aaggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
 ctaggtaggt naccacagag nngncncttc tagtgagcct 160
          the Albandar Charles and Late particularly the constraint of the c
 <210>..784.
 <211> 81
 <212> DNA
 <213> Homo sapiens
 <220>
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<222> (25)
<223> n equals a,t,g, or c
<220> -
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<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
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 <221> misc feature
 <222> (79)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c
 <400> 784
 ggcacgagcc gggatcgtgc cattneattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaa aaaaaannng n
<210> 785
<211> 541
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (355)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (364)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (369)
 <223> n equals a,t,g, or c
        . -: ....
 <220>
 <221> misc feature to pro-
 <222> (393)
 <223> n equals a,t,g, or c
    <220>
<221> misc feature _ ------
<222> (399)
<223> n equals a,t,g, or c
  ____
<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c
 ydi e e e e
<220>
<221> misc feature -
<222> (411)
<223> n equals a,t,g, or c
           . <220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (489)
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<221> misc feature
<222> (521)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (530)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (539)
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 gagetgeagg cateagagaa ceagecetge teaegecatg eeegeeeeg cetteeetet 60
 tecetettee etetecetge ceagecetee etteetteet etgeeggeaa ggeagggace 120
 cacagtggct gcctgcctcc gggagggaag gagagggagg gtgggtgggt ggganggggc 180
 cttcctccag ggaatgtgac tctcccaggc cccagaatag ctcctggacc caagcccaag 240
 gcccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcct 300
cccctgctgg tgccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccetggta cecaattetg ggneeeggne ctaanetegg neceaacca 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
<210> 786
<211> 433
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
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cccacgcgtc cggtctaaca cgtgcgcgag tcggggggctc gcacgaaagc cgccgtggcg 60
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caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
 ccgccgaggg cgcaccaccg gcccgtctcg cccgccgcgc cggggaggtg gagcacgagc 180
 gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
 ctctggtgga ggtccgtagc ggtcctgacg tgcaaatcgg tcgtccgacc tgggtatagg 300
 ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
 gataagettg gegetetege aagaceeega aggaaceeen gneanggaat ttttateegg 420
 tnaaagcgaa ttg
 <210> 787
 <211> 527
 <213> Homo sapiens
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 <221> misc feature
<222> (492)
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<400> 787
cccaggatgt gtggcgagag cctgggccag cccacagcgt tcctagtcag gcagccacac 60
cttggtcctc atcttggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttccagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcattttt gtaggtctgt gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtcccac actgaaatcc cctctagtca 300
cccattccca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcagggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaa aaaaaaa
                                                                  527
<210> 788
<211> 203
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (121.).
<223> n equals a,t,g, or c.
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<221> misc feature
·<222> (160)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (181)
 <223> n equals a,t,g, or c
 <220>
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 <222> (192)
 <223> n equals a,t,g, or c
 <400> 788
 gcttcatgtg gtctgacaat ttatttttgc catcattttt ttaattaaag aaaaaatttc 60
 cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
 naacatttga attgaattca gaatttttct gaaggtgtan atacttttt tttttttna 180
 ncaaaaaccc tnatttcaaa agg
 <210> 789
 <211> 124
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (38)
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<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
<400> 789
ggcacgagca gcctacagcc gcctgcatct gtatccancg ccaggtcccg ccagtcccag 60
ctgcgcgcgn cccccagtcc cgcaccngtt cggnccaggc taagttagcc ctnaccatgc 120
cggt
<210> 790
<211> 293
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<212> DNA
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<221> misc feature
<222> (44)
<223> n equals a,t,g, or c
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<222> (52)
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<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (125)
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<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (141)
<223> n equals a,t;g; or common
<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (184)
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 <221> misc feature
 <222> (222)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
 <222> (266)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (275)
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<221> misc feature
<222> (281)
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<220>
<221> misc feature
<222> (287)
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ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnggtga aagnggatet nagggeteee cagggeeaen cagggeaaee agggeeetne 180
tggnacctcc tggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggncggt tttgnccccg ngtttantgg ggg
<210> 791
<211> 129
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (113)
   <223> n equals a,t,g, or c
   <220>
 <221> misc feature
   <222> (116)
   <223> n equals a,t,g, or c
  <220>
                                    - 1. I
  <221> misc feature
  <222> (119)
  <223> n equals a,t,g, or c
  <400> 791
  aaaaaaaaa aaaaaaaggg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
  gcaacgtca
                                                                                                                                                                                             129
       7. . . . . .
  <210> 792 (1707) (1707) (1707) (1707) (1707) (1707) (1707) (1707)
  <211> -267
  <212> DNA
 <213> Homo sapiens
 and the state of t
                          <220>
 <221> misc feature
 <222> (247)
                                                                                     1 11 1511
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (250)
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (253)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c
<400> 792
ggcacgagcg gccttgagcg cgacgaagac gtgtaggcct gctttccgag gggcgagcgc 60
ggcgccgcgg ggaggagggc ctgcgcgcag tcccgggcgc gttctagggc gccatgctgc 120
```

```
gggaagtete gegegattag tggggaggte tegeggette tggetaettg gtggegaggt 180
aaaaaanctn ggnaagtatt tttanan
                                                                267
<210> 793
<211> 453
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c
<400> 793
ggggaaaagt tttggcagga gcgggagaat tctgcggacc tgcgggacgg cggcggtggc 60
gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagaggtcc atctgcgttc agacccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcaqctaca 420
cagactetee eggageteet egneaacett atg
                                                               453
<210> 794
<211> 141
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

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```
<222> (30)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature.
 <222> (54)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature...
 <222> (108)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c
<400> 794
caacgaccgc gtttncntgg cacggggtcn ggcccgcctg gccctgggaa agcntcccac 60
ggngggggg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatcacga 120
gcgacggtgg tngtggngtg t
                                                                141
<210> 795
<211> 167-
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature:
<222> (46)
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<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (56)
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<221> misc feature
<222> (149)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c
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ngeggeacag cageagegae geageggega canteagage agggaggeeg enceacetge 120
gggccggccg gagcgggcag ccccangene cctccccggg cacncgc
                                                                   167
<210> 796
<211> 331
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<222> (34) . :...
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<220>
        . -- . .
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<221> misc feature '
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<222> (88)
<223> n equals a,t,g, or c
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<222> (124)
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<220>
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 <222> (131)
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<222> (228)
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<223> n equals a,t,g, or c
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<222> (242)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (244)
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<222> (280)
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<222> (328)
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nctccactca gctaatgtna caacatgngn nctacttctc nctnnctttt acannnacag 120
ganninggcc nnagttaata tatcongtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctggttca ttganctnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t
<210> 797
<211> 699
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (404)
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<221> misc feature
<222> (521)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (564)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (589)
<223> n equals a,t,g, or c
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<222> (597)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (598)
<223> n equals a,t,g, or c
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<221> misc feature
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<222> (678)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (695)
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tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat taactagaaa 180
taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgntagtcc aaagaggaac 420
agctctttgg acactaggaa aaaaccttgt agagagagta aaaaatttaa cacccatagt 480
aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
attaaaacac tgaactgnac attaaacagc caatntcta
<210> 798
<211> 138
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<212> DNA
<213> Homo sapiens
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<222> (115)
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<221> misc feature
<222> (120)
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<221> misc feature
<222> (127)
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<222> (128)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c
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cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
gggggnncc cenecee
                                                            138
<210> 799
<211> 496
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (414)
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<222> (442)
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<221> misc feature.
<222> (443)
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<221> misc feature
<222> (485)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (490)
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agettgtate tgatateage actggattgt agaacttgtt getgattttg acettgtatt 120
gaagttaact gttccccttg gtatttgttt aataccctgt acatatcttt gagttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tggtgagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtgttctgg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnngggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac
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<211> 516
<212> DNA
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<221> misc feature
<222> (30)
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<220>
<221> misc feature
<222> (44)
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 <221> misc feature
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 <223> n equals a,t,g, or c
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 <221> misc feature
<222> (107)
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<222> (166)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (169)
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<221> misc feature
<222> (173)
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<221> misc feature
<222> (183)
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 <223> n equals ä,t,g, or c
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 <221> misc feature
 <222> (193)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
 <222> (199)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (270)
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<221> misc feature
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
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  <222> (294)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (296)
  <223> n equals a,t,g, or c
<220>
  <221> misc feature
  <222> (335)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (336)
  <223> n equals a,t,g, or c
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 <221> misc feature
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 <220>
 <221> misc feature
 <222> (362)
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 <221> misc feature
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 <220>
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 <222> (487)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (500)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c
 <400> 800
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gctgaaaaag gngggggga gccaattann acgcccagac ggantaaccc caggccccgc 60
 cacaccaccc cttgccaaan tcatctgcct gctccccggg gggagangac cgccggcctc 120
 tnctactage ecaceagece accagggana aaataaneea tganangeng egneegecae 180
 congiginen canteccone effecegnti ecctiagaan ectgeogogi ectateteat 240
 gacgeteatg gaacenettt etttgatetn etntntetta teteceete tttntngtte 300
taaagaaaat cattttgatg caaggtcctg cctgnnatca natccgaagt gctcctgcag 360
tnaccetttn cetggeattt etetteeaeg egacaagtet getagtgaga tettgeatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggen nctgggccaa gactgt
                                                                516
<210> 801
<211> 284
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (6)
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<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (28)
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naageneeg gngaacttgg ggaaggeneg eetgeaggta eeggteegga atteeegggt 60
cgaccttcgc gtttttatat atatagatat atatagat atatagat atatataga 120
atatatatag atatatatag atatatagat atatatagat atatatagat atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa
                                                               284
<210> 802
<211> 153
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
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 <221> misc feature
 <222> (92)
 <223> n equals a,t,g, or c
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<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
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<222> (140)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c
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eggacggetg tgtagegegt gggtgtaaga ettgeecaag teecanagea eeteacetee 60
cgaagccacc atccccaccc tgtcttccac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg
<210> 803
<211> 383
<212> DNA
<213> Homo sapiens
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<222> (271)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
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<220>
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 <222> (374)
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 <220>
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 <222> (375)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature -
 <222> (383)
<223> n equals a,t,g, or c
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cacgtgagat taaaaccaat tttttcccca ttttttctcc ttttttctct tgctgcccac 60
attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttgttc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct atttctttc 240
tttggatgtt ttggattcag tattccttta nccataaatt tttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaa 360
aaagggggn cgcnncagag ggn
                                                                   383
<210> 804
<211> 509
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature.
<222> (94)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (434)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c
<400> 804
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ctctggagct cagcacagcc ctggagcacc aggngtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat ttaaattata tgttttgtgc tctcatttat 300
ttatcatttt tttctgtaca aatctattat ttctaggttt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctccccctt caaccgtgtc 420
acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag
                                                                    509
<210> 805
<211> 753
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (718)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (736)
 <223> n equals a,t,g, or c
 <400> 805
 ncaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
 ataggogata gaaattgaaa cotggogoaa tagatatagt acogoaaggg aaagatgaaa 120
 aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
 actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
 taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acacccacta 540
cctaaaaaat cccaaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg
<210> 806
<211> 404
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (403)
<223> n equals a,t,g, or c
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ggaagaagga ngaaaagcag gaagctggaa aggaaggtac tgcaccatct gaaaatggtg 60
aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatgtt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcaccccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
ttttttttta atcattatga aanagtggga agcttngnag gtna
<210> 807
<211> 428
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
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 aggcagatgc tcctctggtg ggagggtgnt ggcccggcaa gattgaagga tgtgcagggc 120
 ttcctctcag agccgcccaa actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtaccettg gtatgcentg aacatntggt ttccccacce aantgegget aagtetettt 300
ttccttggat cagccaggcg aaattggggc tttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca gggggtatgn aagggttttc tgncccngga 420
ggnttnag
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<211> 403
<212> DNA
<213> Homo sapiens
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<221> misc feature
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 cnccgctccg gggacagtgc caggngggga gtttgactgg ggcggtacac ctgtcaaacg 120
 gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
 gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccgggcctca 240
 cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
 actogottgt ogoggocaag ogttoatago gaogtogott thocangino gatgtoggat 360
 cttcntatca ttgtnaagca gaattcacca agcgttggat tgt
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tttgaagacc acttggctgt ttcacaaaac cagaagtaat tacagggtgt tcctgaaaag 120
ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taagggaggt 300
gggagaatga tgacttaccc tgaagtcctt cccttgactg cccgcactgg ggcctgttct 360
gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
ntaaggantc catttaccaa cccgcggttt tgtggtcagt gccccaaggg ggtaggttga 540
agggggctta acaaacatgg aagtnggggg nanaagggat nan
<210> 810
<211> 272
<212> DNA
<213> Homo sapiens
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<222> (167)
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<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c
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<221> misc feature
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<223> n equals a,t,g, or c
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 <222> (265)
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 <222> (266)
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 gtatacagat gagggtgtcc gctgctgctt tccttcggaa tccagtgctt ccacagagat 120
 tancetgtan ettatatttg acattettea etgtetgttg tinanenace gtagettttt 180
 accepticact teccetteea actateteea gateteeage etecteenet etegaettie 240
. tccaaaggca ctgaccctng gnctnnactt tg
 <210> 811
 <211> 300
 <212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (8)
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<221> misc feature
<222> (252)
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<220>
<221> misc feature
<222> (259)
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<223> n equals a,t,g, or c

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 ggcagagnat aaaatcttaa agcactcata atatggcatc cttcaatttc tgtataaaag 60
cagatetttt taaaaaagata ettetgtaae ttaagaaaee tgggeattta aateatattt 120
 tgtctttagg taaaagcttt ggtttgtgtt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaa acctttgtt ctctccgtga acttaccttt ccctttttct ttctctttt 240
tttttttgga anattaatng tttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300
<210> 812
<211> 478
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (232)
<223> n equals á,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (325)
<223> n equals a,t,g, or c
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<221> misc feature
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<222> (427)
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<221> misc feature
<222> (445)
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<221> misc feature
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<222> (460)

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<220>
<221> misc feature
<222> (468)
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gccaccttac taccagacaa ccttagccaa accatttacc caaataaagt ataggcgata 60
gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccctat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt tgangcgaca 300
aacctaccga gcctggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggcccc aaaaaccccc taattcccct tggttaattt taactgttng tcccaaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaaanaa ttaaaaaa 478
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<211> 63
<212> DNA
<213> Homo sapiens
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<222> (57)
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<222> (59)
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geogegatee tteagactge coggagageg egetetgeet geogeetgnn tgnetgnene 60
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 <211> 73
 <212> DNA
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 <222> (38)
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 <221> misc feature
 <222> (52)
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 <220>
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 <222> (58)
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 gagggtcctg ctg
                                                                     73
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 <211> 102
 <212> DNA
 <213> Homo sapiens
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 <222> (29)
 <223> n equals a,t,g, or c
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 <222> (91)
<223> n equals a,t,g, or c
<220>
 <221> misc feature
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<222> (100)
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<222> (102)
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gctgccgcct gcctgcctgc cactgaggnt tcccagcacc atgagggcct ggatcttctt 60
tctcctttgc ctggccggga gggccttggc ngnccctcan cn
<210> 816
<211> 379
<212> DNA
<213> Homo sapiens
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<222> (348)
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<223> n equals a,t,g, or c
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<222> (360)
<223> n equals a,t,g, or c
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aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaaaaa tttcggttgg 180
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ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
 gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
 taacagcgca atcctattct agagtccata tcaacaatan ggtttacnac ctcgatgnnn 360
 ggatcaggac attccaatg
                                                                     379
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<212> DNA
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<222> (158)
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<222> (192)
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<221> misc feature
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<222> (240)
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<222> (259)
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<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
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<222> (339)
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<221> misc feature
<222> (345)
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<223> n equals a,t,g, or c
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<222> (354)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (373)
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<222> (384)
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<220>
<221> misc feature
<222> (394)
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<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
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<222> (430)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (445)
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<220>
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<222> (480)
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<220>
 <221> misc feature
<222> (484)
<223> n equals a,t,g, or c
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cgcgttcgct gcctccttca gctccaggat gatcggccag aagacgctct actcctttt 120
ctcccccagc cccgccaaga agcgacangg ccccaagncc cgagccggcc gtcaagggga 180
ccggngtggc tngggttgct naagaaagcg gaatncgggg ggcatcccag ccaagaangn 240
cccggctggg naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttnccgaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccgnggnc cttgnttaan aatncggggg 360
congnaaang ttnccccttg gggntttttg gaanaanaac ctgggaaaga aagcanotta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggattttn 480
tttncaaaaa ggaaaggaaa
<210> 818
<211> 329
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
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<221> misc feature
<222> (95)
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<220>
<221> misc feature
<222> (104)
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (193)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (196)
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<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
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The second secon

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<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (320)
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cggtaccaat ttacacagga gacagctatg accatgatta encenagete gnaattaace 60
ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnotnggco toatogcnnt tocatocota ogcatgottt acatagcana 240
cgaggtgacg atgccnccct taccatcaag atcanttgnc caccaatggt acttgaacct 300
acgagtacac ccgaccaccn ggtggacta
                                                                   329
<210> 819
<211> 648
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (547)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c
 <220>
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<222> (584)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c
<400> 819.
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgctt tttccttttc 60
atctgttgtt ctgtggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttgtt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaatg tgtgggatca ttgcatttcc agaaatctgc ctccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatogttc attgcctttc cagggttatt tagtaaagtt tgttgaaaac aaaaacgcct 360
tttcttggnt ctttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttentanece caaggaette eteantitte aaattgggaa gggnacetaa aagggggtae 600
aattaaaacc ctggggtaaa gggggnaaaa aaaaaaaaa aaaaaaaa
<210> 820
<211> 469
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c
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<222> (284)
<223> n equals a,t,g, or c
<220>
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<222> (293)
<223> n equals a,t,g, or c
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<222> (308)
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<222> (319)
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<222> (370)
<223> n equals a,t,g, or c
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<222> (396)
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<222> (428)
<223> n equals a,t,g, or c
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<222> (465)
<223> n equals a,t,g, or c
<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggagag ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaa aaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
tgatatonaa ttoggoacna goaaccotoa ttooccaaco cacgooggag gotgogootg. 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggentg cttgageaaa atccgccaat tataaaaaaa aaacnetee
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<211> 432
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
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<222> (419)
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<222> (422)
<223> n equals a,t,g, or c
<220>
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<222> (425)
<223> n equals a,t,g, or c
<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttgttgc 120
agaaggaagg ggaaacatac atttattcat gccagtctgt tgcatgcagg ctttttggct 180
tectacettg caacaaaata attgeaceaa eteettagtg eegatteege ceacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgct ttcctgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaa aaaanccggg ggggggcccg gtaacccatt tccccctana 420
gnggnggggt tt
                                                                   432
<210> 822
<211> 428
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (323)
<223> n equals a,t,q, or c
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<221> misc feature
<222> (367)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (382)
<223> n equals a,t,g, or c
·<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
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<222> (425)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (427)
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aagtetette agtgeacteg etecetetet ggetaaggea tgeattagee actacacaag 60
tcattagtga aagtggtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctcctgtgga ctgtggagct ctggaaggct tggtgggagt gaatttgccc 180
acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctggggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aactttttt tttcccttaa gaattaaaac 420 -
ggggnana
<210> 823
<211> 100
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c
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<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (71)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
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<400> 823
ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta
<210> 824
<211> 173
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220> .
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c
<220>
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<222> (156)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
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cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga gaaccacagg tgtacaccct 60
gccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa
<210> 825
<211> 341
<212> DNA
<213> Homo sapiens
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<222> (283)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c
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<222> (317)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
<400> 825
cccaaaccca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacacccct ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t
<210> 826
<211> 492
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (446)
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<220>
<221> misc feature
<222> (471)
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<220>
<221> misc feature
<222> (475)
<223> n equals a,t;g, or c
<220>
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<222> (480)
<223> n equals a,t,g, or c
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gcaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagnccaa 420
agaggaacaa gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaacccata ct
<210> 827
<211> 290
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c
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aacgggaccg teettetege teegeeeege gggggteeee tegtetetee teteceegee 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggaccc ggcccgacct cgccgtcccg 180
cccgccgcct tctgcgtcgc gggtgcgggc cggcggggtc ctctgacgcn gcagacagcc 240
ctcgctgtcn cctccagtgg angncgactt gcgggcggta ctcctacgan
<210> 828
<211> 420
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (405)
<223> n equals a,t,g, or c
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gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttggagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagageng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tattttttt aagtgggaga agggtgggca gttatcactg 240
gggaagaga gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtettg teggeaagge agesteetgg coantitete tgeteatgtt tetggttage 360
agagttcaga gccaattgtt tnacttcttg gttgtncccg tgnangaagc ctttcaaaac 420
<210> 829
<211> 298
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
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<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
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<220>

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 <222> (129)
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 <222> (171)
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<222> (181)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (191)
<223> n equals a,t,g, or c
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<222> (267)
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<221> misc feature
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c
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ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tggagagtga caaaatggtg acaggtaget ggggacctag gctatetene catgaaggtt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240
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agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca
                                                                     298
 <210> 830
 <211> 516
 <212> DNA
 <213> Homo sapiens
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 <222> (1)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c
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 <222> (10)
 <223> n equals a,t,g, or c
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 <222> (21)
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<222> (35)
<223> n equals a,t,g, or c
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<222> (408)
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<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c
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<220>

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 <222> (513)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c
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 cgggggcatc cccttgtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
 agagagtett egggagagga ggaggagtag ggcegeeteg gggetgggea teeggeeeet 180
 ggggccaccc cttgtcagcc gggtgggtag gaaccgtaga ctcgctcatc tcgcctgggt 240
 ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
 gaagtttaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
 tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
 agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaaa gatangnatt 480
 aatccccttc attggtntcc aaaagccaat aangng
 <210> 831
 <211> 636
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (414)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,q, or c
 <220>
 <221> misc feature
 <222> (530)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c
 <400> 831
 ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
 caatgttctt ggcccatcat gacattgggt agcattaact gtaagttttg tgcttccaaa 120
 tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180
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tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaaaa aggccgcatg atctttctgg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
catcctattt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatgggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaaggttc tgatgt
<210> 832
<211> 466
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c
<400> 832
gatcagatta tgagttactg tttaaaagaa aaatgctgtt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttaa ttcaccccac actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatatt gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttgtt agtggtctga 300
aataattatt ttcctgttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattaccaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt tttaacccac ggntangttc tanatttatt ctttcn
<210> 833
<211> 405
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<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<400> 833
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
atctgactca ttctttattc tattttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggt attaccctcc taatagtcat actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaatg tttctcagga aaaaa
                                                                   405
<210> 834
<211> 402
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
 <222> (390)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
<400> 834
gcaaacccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatgtt ggatcaggac 240
atcccgatgg tgcagccgct attaaaggtt cgtttgntca acgattaaag tcctacgtga 300
totgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt
<210> 835
<211> 121
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or.c
<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c
<400> 835
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
<210> 836
<211> 411
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
<400> 836
agtaageetg ccagacacge tgtggcgget geetgaaget agtgagtege ggegeegege 60
acttgtggtt gggtcagtgc cgcgccgc tcggtcgtta ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcaccccca ccaaccagat ccgcctaacc aatgtggccg tggtacggat 240
gaagegegee aggaageget tegaaatege ttgetacaga aacaagtegt eggetggegg 300
agggctttgg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttncca 360
```

```
aagtcagttt ccaaaaggaa attcancagg ggtttggaaa atgccaanga a
                                                                    411
<210> 837
<211> 386
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
gcggcagctc agcaagtggt ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
ctggccaaga ccacccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
tctgggatcg ggaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
cctgaaatga tagcagggag acttgggtga cccccttcc aggcgccatc tagcacagcc 240
tggccctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
тсссавава валававана валаванана ванаванана валаванана ванаванана 360
aaaaaaaaa aaaaaaaaa ngnnnn
                                                                   386
<210> 838
<211> 124
<212> DNA
<213> Homo sapiens
<400> 838
gctttcaata gatcgcagcg agggagctgc tctgctacgt acgaaacccc gacccagaag 60
caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
gagg
                                                                   124
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<210> 839
<211> 270
<212> DNA
<213> Homo sapiens
<220> '
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
<400> 839
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atctggttgt ggttacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
 gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgagggnctg gggtgagggt 120
 taatgttcgn accagtgctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa
                                                                    270
<210> 840
<211> 430
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
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<400> 840
ctctacatca ccgccccgac cttagctctc accatcgctc ttctactatg aaccccctc 60
cccataccca accccctggt caacctcaac ctaggcctcc tatttattct agccacctct 120
agectageeg tttactcaat cetetgatea gggtgageat caaactcaaa ctacgeeetg 180
atoggogoac tgcgagcagt agoccaaacn atotoatatg aagtoacoot agocatoatt 240
cctactatca acattactaa tnngttggct cctttaacct ctccaccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataatcttca 420
ggttcaaatt
<210> 841
<211> 650
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c
<400> 841
gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctcgcactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcgttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatcataa tggctatagc aataaaacta 300
```

```
ggaatagccc cctttcactt ctgagtccca gaggttaccc aaggcacccc tctgacatcc 360
 ggcctgcttc ttctcacatg acaaaaacta gcccccatct caatcatata ccaaatctct 420
 contractag anguagest tetreteact etetraatet tatecateat agraggeagt 480
 tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
 cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
 ttaactaatt atattaatcc taactactac ggantctact actaacttaa
<210> 842
<211> 509
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (468)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c
<400> 842
gcctgtgtct gctaaaaaag aaaagaaagt ttcctgcatg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgcca ttgtggcccg 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggeaateat attateteag ggacatgege ateatggegt ggeaagagee ttegggttea 300
gaagatcagg cottotatoo tgggotgcaa catoottoga gttgaatatt cottactgat 360
ctatgttagc gttcctggat ccaagaaggt catccttgac ctgcccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc
                                                                   509
<210> 843
<211> 158
<212> PRT
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<213> Homo sapiens
  <400> 843
  Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
                                      10
  Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
  Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Glý Ala Asp Thr Pro
  Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
  Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
                      70
                                          75
  His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
                                      90
  Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
             100
                                 105
                                                     110
  Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
  Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
                        135
  Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
                     150
                                        155
 <210> 844
 <211> 601
 <212> PRT
<213> Homo sapiens
 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (64)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (383)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 844
Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Trp Arg
                                  25 .
                                                      30
Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
                             40
Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
                         55
Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
            100
Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
                            120
Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
   130
                        135
```

Leu 145	Ser	Ser	Asp	Pro	His 150	Phe	Xaa	Glu	Pro	Gly 155		Met	Val	Arg	160
Val	Gly	Gly	Thr	Pro 165	Arg	Asp	Ser	Ala	Gly 170		Ser	Pro	Phe	Pro 175	Pro
Lys	Arg	Arg	Glu 180	Arg	Pro	Pro	Arg	Lys 185	Pro	Glu	Leu	Leu	Gln 190		Glu
Ser	Leu	Pro 195	Pro	Pro	His	Ser	Ser 200	Gly	Phe	Leu	Gly	Ser 205	Lys	Pro	Glu
Gly	Pro 210	Gly	Pro	Gln	Ala	Glu 215	Ser	Arg	Asp	Thr	Gly 220	Thr	Glu	Ala	Leu
Thr 225	Pro	His	Ile	Trp	Asn 230	Arg	Leu	His	Thr	Ala 235	Thr	Ser	Arg	Lys	Ser 240
Tyr	Arg	Pro	Ser	Ser 245	Met	Glu	Pro	Trp	Met 250	Glu	Pro	Leu	Ser	Pro 255	Phe
Glu	Asp	Val	Ala 260	Gly	Thr	Glu	Met	Ser 265	Gln	Ser	Asp	Ser	Gly 270	Val	Asp
Leu	Ser	Gly 275	Asp	Ser	Gln	Val	Ser 280	Ser	Gly	Pro	Cys	Ser 285	Gln	Arg	Ser
Ser	Pro 290	Asp	Gly	Gly	Leu	Lys 295	Gly	Ala ,	Ala	Glu	Gly 300	Pro	Pro	Lys	Arg
Pro 305	Gly	Gly	Ser	Ser	Pro 310	Leu	Asn	Ala	Val	Pro 315	Cys	Glu	Gly	Pro	Pro 320
Gly	Ser	Glu	Pro	Pro 325	Arg	Arg	Pro	Pro	Pro 330	Ala	Pro	His	Asp	Gly 335	Asp
Arg	Lys	Glu	Leu 340	Pro	Arg	Glu	Gln	Pro 345	Leu	Pro	Pro	Gly	Pro 350	Ile	Gly
Thr	Glu	Arg 355	Ser	Gln	Xaa	Thr	Asp 360	Arg	Gly	Thr	Glu	Pro 365	Gly	Pro	Ile
Arg	Pro 370	Ser	His	Arg	Pro	Gly 375	Pro	Pro	Val	Gln	Phe 380	Gly	Thr	Xaa	Asp
Lys 385	Asp	Ser	Asp	Leu	Arg 390	Leu	Val	Val	Gly	Asp 395	Ser	Leu	Lys	Ala	Glu 400
Lys	Glu	Leu	Thr	Ala 405	Ser	Val	Thr		Ala 410	Ile	Pro	Val	Ser	Arg 415	Asp

Trp	Glu	Leu	Leu 420		Ser	Ala	Ala	Ala 425		Ala	Glu	Pro	Gln 430	Ser	Lу
Asn	Leu	Asp 435	Ser	Gly	His	Cys	Val 440	Pro	Glu	Pro	Ser	Ser 445	Ser	Gly	Gli
Arg	Leu 450	Tyr	Pro	Glu	Val	Phe 455	туr	Gly	Ser	Ala	Gly 460	Pro	Ser	Ser	Sei
Gln 465	Ile	Ser	Gly	Glý	Ala 470	Met	Asp	Ser	Gln	Leu 475		Pro	Asn	Ser	Gl _y 480
Gly	Phe	Arg	Pro	Gly 485	Thr	Pro	Ser	Leu	His 490	Pro	туг	Arg	Ser	Gln 495	Pro
Leu	Tyr	Leu	Pro 500	Pro	Gly	Pro	Ala	Pro 505	Pro	Ser	Ala	Leu	Leu 510	Ser	Gly
Val	Ala	Leu 515	Lys	Gly	Gln	Phe	Leu 520	Asp	Phe	Ser	Thr	Met 525	Gln.	Ala	Thr
Glu	Leu 530	Gly	Lys	Leu	Pro	Ala 535	Gly	Gly	Val	Leu	Tyr 540	Pro	Pro	Pro	Ser
Phe 545	Leu	Tyr	Ser	Pro	Ala 550	Phe	Cys	Pro	Ser	Pro 555	Leu	Pro	Asp	Thr	Ser 560
Leu	Leu	Gln	Val	Arg 565	Gln	Asp	Leu	Pro	Ser 570	Pro	Ser	Asp	Phe	Туг 575	Ser
Thr	Pro	Leu	Gln 580	Pro	Gly	Gly	Gln	Ser 585	Gly	Phe	Leu	Pro	Ser 590	Gly	Ala
Pro	Ala	Ser 595	Arg	Суѕ	Phe	Tyr	Pro 600	Trp							

<210> 845 <211> 67 <212> PRT <213> Homo sapiens

-

Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro 1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
20 25 30

```
Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly 35 40 45
```

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys 50 55 60

Ser Ile Asp

<210> 846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa 1 5 10 15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu 20 25 30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
35 40 45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
50 55 60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu 65 70 75 80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu 85 90 95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe 115 120 125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala 130 135 140

Gly Lys

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<210> 847
 <211> 184
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 847
Ala Arg Met Ala Ala Asp Lys Xaa Pro Ala Ala Gly Pro Arg Ser Arg
Ala Ala Met Ala Gln Trp Arg Lys Lys Gly Leu Arg Lys Arg Arg
Gly Ala Ala Ser Gln Ala Arg Gly Ser Asn Ser Glu Asp Gly Glu Phe
                             40
Glu Ile Gln Ala Glu Asp Asp Ala Arg Ala Arg Lys Leu Gly Pro Gly
                         55
Arg Pro Leu Pro Thr Phe Pro Thr Ser Glu Cys Thr Ser Asp Val Glu
Pro Asp Thr Arg Glu Met Val Arg Ala Gln Asn Lys Lys Lys Lys
                 85
                                     90
Ser Gly Gly Phe Gln Ser Met Gly Leu Ser Tyr Pro Val Phe Lys Gly
          100
                               105
Ile Met Lys Lys Gly Tyr Lys Val Pro Thr Pro Ile Gln Arg Lys Thr
                           120
Ile Pro Val Ile Leu Asp Gly Lys Asp Val Val Ala Met Ala Arg Thr
Gly Ser Gly Lys Thr Ala Cys Phe Leu Leu Pro Met Phe Glu Arg Leu
                   150
                                       155
Lys Thr His Ser Ala Gln Thr Gly Ala Arg Ala Ser Ser Ser Arg Arg
                                   170
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Pro Glu Xaa Trp Pro Cys Arg Pro 180

_ :

<210> 848 <211> 160 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (35) <223> Xaa equals any of the naturally occurring L-amino acids <400> 848 Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr . 10 Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu 20 25 🚅 Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His 50 55 60 Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr 70 75 80 Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu 85 90 Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu 100 105 Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly 115 120 125 Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu 130 . 135 140 Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu

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<210> 849
<211> 75
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 849
Val Gln Asn Val Gly Tyr Gln Ser Lys His Cys Gly Ala Val Xaa Tyr
Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
     50
Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
 65
                     70
<210> 850
<211> 383
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
               . 5
                           . 10
Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
             20
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Glu	Ile	Glu 35		Ala	Pro	Pro	Lys 40		His	Glu	Val	Arg 45		Lys	Ile
Ile	Ala 50		Ala	. Val	Cys	His 55	Thr	Asp	Ala	Tyr	60		Ser	Gly	Ala
Asp 65	Pro	Glu			70					75		Glu			Gly
	Val		Ser	Val 85	Gly	Glu	Gly	Val	Thr 90	Lys	Leu	Lys	Ala	Gly 95	
Thr	Val									Gly					Cys
. • •	Asn		Lys	Thr	Asn	Leu	Cys 120	Gln	Lys	Ile	Arg	Val 125	Thr	Gln	Gly
			Met		Asp	Gly 135	Thr	Ser	Arg	Phe	Thr 140	Cys	Lys	Gly	Lys
Thr 145	Ile	Leu	His	Tyr	Met 150	Gly	Thr	Ser	Thr	Phe 155	Ser	Glu	Tyr	Thr	Val 160
Val	Ala	Asp	Ile:	Ser 165	·Val	Ala	Lys	Ile	Asp. 170	Pro	Leu	Ala	Pro	Leu: 175	Asp
Lys	Val		180					185		Thr			190		Ala
Val		Thr 195	Ala	Lys	Leu	Glu	Pro 200	Gly	Ser	Val	Cys	Ala 205	Val	Phe	Gly
Leu		Gly	Val	Gly		Ala 215	Val	Ile	Met	Gly	Cys 220	Lys	Val		_
Ala 225	Ser			Ile	Gly 230	Val	Asp	Ile	Asn	Lys 235	Asp	Lys	Phe	Ala	Arg 240
Ala	Lys	Glu	Phe						11e 250	Asn			Asp	Phe 255	Ser
Lys	Pro	Île	Gln 260		Val			265	Met	Thr			270	Val	_
Tyr	Ser 	Phe 275				Gly				Val	Met	Arg 285	Ala	Ala	Leu
Glu	Ala 290	Cys	His	Lys					Thr	Xaa	Val 300			Val	

Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly 305 310 315 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser 325 330 335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp 340 345 350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe 355 360 365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile 370 375 380

<210> 851

<211> 154

<212> PRT

<213> Homo sapiens

<400> 851

Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg

1 5 10 15

Val Gly Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
20 25 30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
35 40 45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe 50 55 60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu 65 70 75 80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu 85 90 95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
100 105 110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys 115 120 125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn 130 135 140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met

145				150)									
<210>.8	52:	. A.		; <u>.</u>				s .(· · · .			
<211> 3														
<212> P	RT													
<213> H	ото	sapi	ens.		=·	· -	. 3			· :.	·1 1.		• ::	·
<400> 8														
Asp.Ser	. Arg	cVal	Asp	. Pro	Arg	j: Val	Arg	r Ala	: I1e	. Ile	: Ala	Lys	Thr	Phe
1			. 5	ŕ				10).				15	i :
Lys: Gly	Arg	Gly	-Ile	Thr	Gly	u Val	:: Glu	Asp	Lys	:: Glu	:::Ser	Trp	·His	∵Gly
-		20					25	Č.				30);	
Lys: Pro			Lys	Asn	Met	Ala	- Glu	r Gln	·Ile	Ile	Gli	.Glu	lle	Tyr
	35	<u>.</u> .				40					45	i		
Ser:Gln	Ile	Gln	Ser	Lys	Lys	Lys	Ile	. Leu	: Ala	Thr	· Pro	::Pro	Gln	-Glu
50				_	55					60				
Asp Ala	. Pro	. Ser	.Val	∴Asp	Ile	Ala	: Asn	. Ile	Ara	:Met	_Pro	-ser	Leu	Pro
65 ,				70					7.5				,	80
Ser Tyr:	Lys	Val	:Gly	. Asp	Lys	_ Ile	Ala	. Thr	Arq	. Lys	Ala	Tyr	Glv	Gln
			85		-			90		•		•	95	
Ala-Leu	Ala:	Lys.	Leu	. Gly :	His	Ala	Ser	: Asp	Arg	- Ile	.:Ile	.Ala	·Leu	Asp
		100		_			105		-			110		•
Gly Asp	Thr	.Lÿs	:Asn	Ser	Thr	Phe	Ser	-Glu:	Ile	: Phe	:Lys	Lys	Glu	His:
	115					120					125			
Pro Asp	Arg	Phe	Ile	Glu	Cys	Tyr.	Ile	: Ala:	Glu	Gln	Asn	Met	Val	Ser
130					135	-				140				
Ile Ala	Val	Gly	Cys	Ala	Thr	Arg	Asn	Arg	Thr	Val	Pro	Phe	Cys	Ser
145-				150					155	-	•			160
Thr Phe	Ala	Ala	Phe	Phe	Thr	Arg.	Ala	Phe	Asp	Gln	Ile	Arg	Met	Ala
			165					1.70					175	
Ala:Ile:	Ser		Ser	Asn.	Ile	Asn	Leu	Cys	Gly	Ser	His	Cys	Gly.	Val
		180		•			185					190		
Ser Ile		Glu	Asp.	Gly	Pro			Met.	Ala	Leu	Glu	Asp	Leu	Ala.
	195					200					205			

Met Phe Arg Ser: Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly

215

210.

Val	Ala	Thr	Glu	Lys	Ala	Val	Glu	Leu	Ala	Ala	Asn	Thr	Lys	Gly	Ile
225					230					235			-	•	240
Cys	Phe	Ile	Arq	Thr	Ser	Ara	Pro	Glu	Asn	Ala	Tle	Tle	Tvr	Asn	Δen
-			,	245					250				-1-	255	11511
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Asn	Glu	Asn	Phe	Gln	Val	Glv	Gln	Δla	Tve	U = 1	17 a 1	T 011	7	C ~ =	T
			260	O I	vul	OLY	0111	265	Буз	Val	vai	Leu	_	Ser	гåг
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ASP	ASP		vai	THE	Val	TTE		Ala	GIY	vaı	Thr		His	Glu	Ala
		275					280					285			
_			_	_											
Leu		Ala	Ala	Glu	Leu	Leu	Lys	Lys	Glu	Lys	Ile	Asn	Ile	Arg	Val
	290					295					300				
Leu	Asp	Pro	Phe	Thr	Ile	Lys	Pro	Leu	Asp	Arg	Lys	Leu	Ile	Leu	Asp
305	•				310					315					320
Ser	Ala	Arg	Ala	Thr	Lys	Gly	Arg	Ile	Leu	Thr	Val	Glu	Asp	His	Tvr
				325	~	-			330					335	-1-
										•				333	
Tvr	Glu	Glv	Glv	Tle	Gly	Glu	Ala	Va l	Ser	Sor	A 1 =	Wa l	tra 1	C1	C1
-1-		1	340		1			345		JCI	NT.	var		GLY	GIU
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Pro	Glw	TIO	Thr.	17 - 1	mb -	uia	7	n 7 a	**- 1					_	_
PIO	GLY		THE	val	Thr	HIS		АТА	val	Asn	Arg		Pro	Arg	Ser
		355	**				360					365			
	_	_			_										
GIY		Pro	Ala	Glu	Leu		Lys	Met	Phe	Gly	Ile	Asp	Arg	Asp	Ala
	370					375					380				
Ile	Ala	Gln	Ala	Val	Arg	Gly	Leu	Ile	Thr	Lys	Ala				
385					390					395					
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Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His

			20					2,5					30		
Ala	Arg	Gln 35	Ser	Met	Arg.	Val	Thr 40	Leu	Ala	Thr	I·le	Ala 45	Trp	Met	Val
Ser	Phe 50		Ser	Asn	туг	Ser 55			Ala	Asn	Ile 60		Pro	Asp	Ile
Glu 65	Asn	Glu.	Asp	Phe		Lys		Сув	Val	-	The		Asn	Lys	Phe 80
Arg	Ser	Glu	Val		Pro	Thr	Ala	Ser		Met		Tyr	Met	Thr. 95	_
Asp	Pŗo	Ala	Leu 100	Ala		Ile	Ala		Ala		Ala	Ser 		Cys	
Phe	Ser		Asn		Arg	Leu:		Pro		His	Lys	Leu 125	His	Pro	Asn
Phe		Ser	Leu.	Gly	Glu		Ile	_	Thr	Gly.		Val	Pro	Ile	Phe
Ser 145	Val	Ser	Ser	Ala		Thr		Trp	Tyr	_	Glu Luti		Gln	Asp	Туг 160
Asp	Phe	Lys.	Thr.		Ile		Lys.	Lys		Cys		His	Tyr	Thr. 175	
Va'l	Val	Trp	Ala 180	Asp	Ser	Tyr	Lys	Val 185	Gly	Cys	Ala	Val	Gln 190	Phe	Cys
Pro	Lys	Val 195	Ser	Gly	Phe	Asp	Ala 200	Leu	Ser	Asn	Gly	Ala 205	His	Phe	Ile
	Asn 210		Gly	Pro	Gly	Gly 215	Asn	Tyr	Pro	Thr	Trp 220	Pro	Tyr	Lys	Arg
Gly 225	Ala	Thr	Xaa		Ala 230	_			Asn	235	Lys			_	240
			Asn	Arg 245	Gln	Arg	Asp	Gln	250				Tyr	Ser 255	Val
			Gly 260	Trp						Asn					
Phe	Leu	Ile 275	Val	Asn	Ser		280	Leu		Leu		Val 285		Ile	Thr
r 1 e	T.eu	Va 1	Gln	Hig	T.ve					Val					

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Val	Pro	Ala	Ser	Phe	Ala	Ala	Ala	Ser	Ala	Val	Leu	Ser	Ala	Val	Phe
1				5					10					1,5	
Pro	Gln	Glu	Pro	Ala	Tyr	Phe	Leu	Asn	Met	Glu	Ser	Val	Val	Arg	Arg
			20			•		25					30		
Cys	Pro	Phe	Leu	Ser	Arg	Val	Pro	Gln	Ala	Phe	Leu	Gln	Lys	Ala	Gly
		35					40					45			
Lys		Leu	Leu	Phe	Tyr	Ala	Gln	Asn	Cys	Pro	Lys	Met	Met	Glu	Val
	50					55					60				
	_														
	Ala	Lys	Pro	Ala		Arg	Ala	Leu	Ser	Thr	Ala	Ala	Val	His	Tyr
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GIN	GIN	He	Lys		Thr	Pro	Pro	Ala		Glu	Lys	Asp	Lys		Ala
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			100					105					110		
Glv	Thr	Gln	T.e.11	Pro	Sar	Glv	uie	Pro	T OIL	Dro	71-	mb =	Ser	C1-	C1
,		115			501	O ₁ y	120	110	nea	FLO	Ala	125	361	GIII	GIY
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Thr	Ala	Ser	Lvs	Cvs	Pro	Phe	Leu	Ala	Ala	Gln	Met	Acn	Gln	Ara	G1v
	130		-1-	-1-		135				· · · ·	140		Q1	nry	GLY
Ser	Ser	Val	Phe	Cvs	Lvs	Ala	Ser	Leu	Glu	Leu	Gln	Glu	Asp	Va 1	Gln
145				-4-	150					155	02				160
Glu	Met	Asn	Ala	Val	Arg	Lys	Glu	Val	Ala	Glu	Thr	Ser	Ala	Glv	Pro
				165	-	-			170		_			175	
														-	
Ser	Val	Val	Ser	Val	Lys	Thr	Asp	Gly	Gly	Asp	Pro	Ser	Gly	Leu	Leu
			180					185		-			190		

Lys	Asn	Phe 195		Asp	Ile	Met	200	Lys	Gln	Arg	Pro	Glu 205	Arg	Val	Ser
His	Leu	Leu	Gln	Asp	Asn	Leu	Pro	Lys	Ser	Val	Ser	Thr	Phe	Gln	Tyr
	210			_		215		_			220				-
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Asp 225		Phe	Phe	Glu	Lys 230	Lys	Ile	Asp	Glu	Xaa 235	Lys	Glu			
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		Gly		Ser	Leu	Gly	Cys	Thr	Gly	Ala	Gly	Gly	Phe	Val	Ala
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Pro	Glu	Glu	Asn	Lys	Met	Ala	Pro	Cys	Glu	Phe	Gly	Val	Leu	Asn	Ser
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Leu	Ala	Asn	Val	Leu	Ser	Gln	His	Leu	Àsn	Gln	Lys	Asp	Thr	Leu	Met
		÷:	-	85	*		• • •		90-	: .				95	
Gln	Arg	Leu	Arg	Asn	Gly	Leu	Gln	Asn	Cys	Ala	Thr	His	Thr	Gln	Pro
				•											
Phe	Trp	Gly	Ser	Leu	Thr	Asn	Arg	Thr	Arg	Pro	Pro	Ser	Val	Gln	Val
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				Pro									Leu	Ala	Cys
•. •	130	:	<u></u>	·		135				-	140				
ryr	Val	Trp	Gly	Phe '	Tyr	Pro	Ala	Glu	Val	Thr	Ile	Thr	Trp	Arg :	Lys
145-	-	٠.		_	150					155	1.15	: •			160

Asn	Gly	Lys	Leu	Val 165		Pro	His	Ser	Ser 170		His	Lys	Thr	Ala 175	
Pro	Asn	Gly	Asp 180	Trp	Thr	Tyr	Gln			Ser			Ala 190	Leu	Thr
Pro	Ser		Gly										Ile	Gly	Ala
Pro	Glu 210	Pro	Ile	Leu	Arg					Gly			Pro	Met	Gln
Thr 225	Leu	Lys	Val	Ser						Leu 235					Ile 240
Ile	Phe	Ser	Leu							Arg					Ser
Tyr	Thr	Pro	Leu 260	Pro	Gly	Ser				Glu		_		Ile	Ser

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Val Val Ala Arg Phe Ile Arg Ile Tyr Pro Leu Thr Trp Asn Gly Ser
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Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro Val Tyr
20 25 30

Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu Asp Phe 35 40 45

Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val Val Asn 50 55 60

Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys Ser Ser 65 70 75 80

Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu 85 90 95

His	Glu	Leu	Gly 100		Pro	Glu	Phe	2 Arg		Thr			110	1	, Gly
Asn	Glu	Val	1	Gly	Arg	Glu	Leu 120	1	Leu					Туг	Leu
Cys	Arg 130			Arg	Asp	Gly 135	Asn		Arg	Val	Arg		Trp	Cys	Arg
2:5										· · · .:	· 1	. :	·	•	1.
	His	Ala	Ser	Thr	_	Cys	Pro	His					. :		
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	Leu	Ser	Gln		Ala	Val	Arg	Ala			Phe	Leu	Arg	_	Leu
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Pro	Ser	Gly	Arg 20	Val	Asn	Суз	Phe	Leu 25	Gln	Ala	Gly	His	Gly 30	Ala	Ser
Arg	Ser	Gln 35	Gly	Ser	Gly	Leu	Cys .40	Gln	Met	Leu	Lys	Glu 45	Gly	Ala	Lys
His	Phe 50	Ser	Gly	Leu	Glu	Glu 55	Ala	Val	Tyr	Arg	Asn 60	Ile	Gln	Ala	Cys
Lys 65	Glu	Leu	Ala	Gln _.	Thr 70	Thr	.Arg	Thr	Ala	Tyr 75	Gly	Pró	Asn	Gly	Met 80
Asn	Lys	Met	Val	Ile 85	Asn	His	Leu	Glu	Lys	Leu	Phe	Val	Thr	Asn 95	Asp
Ala	Ala	Thr	11e 100	Leu		Glu	Leu	Glu 105	Val	Gln	His	Pro	Ala 110	Ala	Lys
Met	Ile	115	Met		Ser		Met 120		Glu	Gln		Val	Gly	Asp	Gly
Thr		•	Val		•			Gly	-	Leu			Leu	Ala	Glu
Glu 145			Arg	Ile	Gly 150	Leu			Ser	Glu 155	Val	Ile	Glu	Gly	Tyr 160
		1								_		_	_		
Glu	TTE	ALA	cys	Arg	ràs	Ala	HIS	Glu	Ile	Leu	Pro	Asn	Leu	Val	Cys

165 170 175 Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu 180 185 Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala 200 205 Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His 215 220 Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile 225 230 Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu 245 250 Val Met <210> 858 <211> 143 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (14) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (135) <223> Xaa equals any of the naturally occurring L-amino acids <400> 858 Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro 10 Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly 20 Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys 50 Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val

65					70)				75	,		•		80
				85					90)				95	
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Phe	Ser	Asn	Ala	Tr	Met	Ser	Trp	Val	. Arg	Gln	Ala	Pro	Gly	' Lys	Gly
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Val	Thr	Met	Ala	Gl'n	Gln	Ala	Ala	Asp	Lys	Tyr	Leu	Tyr	Val	Asp	Lys
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Asn	Phe	Ile	Asn	Asn	Pro	Leu	Ala	Gln	Ala	Asp	Trp	Ala	Ala	Lys	Lys
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Leu	Val	Trp 35	Val	Pro	Ser	Asp	Lys 40	Ser	Gly	Phe	Glu	Pro 45	Ala	Ser	Leu
													•		
_ Lys	Glu 50	Glu	Val	Gly	Glu	Glu 55	Ala	Ile	Val	Glu	Leu 60	Val	Glu	Asn	Gly
•	_		_		_	_	_								
Lys 65			Lys		Asn 70	Lys	Asp	Asp	Ile	Gln 75	Lys	Met	Asn	Pro	Pro 80
[,ve	Pho	Ser	T.ve	Wa l	G1.,	Δen	Me+	Δ] =	G) ···	T e···		C1	T 611	7.0-	C1
Lys	- HE	SET	пур	85	Glu	voħ	ne t	VIG	90	nen	tur	cys	Leu	95	GIÜ
Ala	Ser	Val	Leu	His	Asn	Leu	Lys	Glu	Arg	Tyr	Tyr	Ser	Gly	Leu -	Ile

100 105 110 Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser 115 120 125 Glu Val Gly Xaa Xaa Ala Gly 130 135 <210> 860 <211> 52 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <400> 860 Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr 20 25 Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys 40 45 Gly Pro Arg Asn 50 <210> 861 <211> 321 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <400> 861 Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser 20 25

Gly	Ser	Ala 35		Thr	Leu	Val	. His		Gly	Thr	Ser	Ala 45		, Ala	Thr
Thr	Thr 50		Ala		Lys	Ser 55		Pro	Phe	: Ser	Ile 60		Ser	His	His
Ser 65		Thr	Pro	Thr	Thr 70		Ala	Ser	His	Ser 75		Lys		Asp	Ala 80
Ser	Ser	Thr	His	His 85		Thr		Pro	Pro 90		Thr		Ser	95	His;
Ser	Thr	Ser.	Pro 100	Gln	Leu	Ser	Thr:	Gly 105		Ser		Phe	Phe 110		Ser
Phe	His	Ile 115	Ser	Asn	Leu	Gln	Phe 120	Asn	Ser L19		. Leu	Glu 125	Asp	Pro	Ser:
Thr	Дзр 130	Tyr,	Tyr.		Glu	Leu 135	Gln;	Arg	Asp,	Ile	Ser 140	Glu	Met ,	Phe	Leu.
145					150					155		. *- t			Phe 160
	-			165		145			170					175	Gly.
			180					185		ī			190		Thr
		195		•			200				٠	205			ser.
	210	•				215		٠.			220				Gly.
225					Leu 230					235		•			240
				245	Ala	• -			250		•			255	
			260		Ile			265		-			270		
		275			Tyr		280					285			
-CI	290 .		игд	ser	Pro	TYT 295	G1U	тÄз	val		Ala 300	GLY	Asn	Gly.	Gly.

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn

310 315 Leu <210> 862 <211> 327 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (307) <223> Xaa equals any of the naturally occurring L-amino acids Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val 35 40 Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn 65 70 75 Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn 85 Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr 105 Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr 115 125 120 Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala 145 150 His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

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Ser	His	Asn	Leu	Ser	Leu	Val	Ile	Leu	Val	Pro	Gln	Asn	T.e.:	1.ve	His
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Arg	Leu						200			Pro					Ala
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Ile	Met	Glu	Lys	Leu	Glu	Met	Ser	Lys	Phe	Gln	Pro	Thr	Leu	Leu	Thr
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Leu	Pro	Arq	Ile	Lvs	Val	Thr	Thr	Ser	Gln	Asp	Met	Leu		Ile	Met
															240
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GLU	Lys	Leu	Glu	Phe	Phe	Asp	Phe	Ser	Tyr	Asp	Leu	Asn	Leu	Cys	Gly Oly
			•	243		5 S		7 .2	250		i i i i i i Gan		- 11 1	255	Same of
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	5		260	! ;	2	2-5	77.3	265	: : ?: †;	1.5/ €	11.4	@1::	270	_ :	√ :
 Val	Leu	Glu	Len	Th -	Glu	Th-	Cl.	Wa I	Gl.,	NI a	71 -	7 l -	71.	C	· (
									• • •					. :	*
															Phe
	290	÷				295	· *		252	2-,	300	FVT	NIP -	1	44, 12
Leu	Phe	Xaa	Leu	Trp	Asp	Gln	Gĺn	His	Lys	Phe	Pro	Val	Phe	Met	Gly
305		: -		.s []	310	m = 15	£;	Arn	42.1	315	(Const				320
•															
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1		.8	• ·	5.						: <u>.</u>			٠.	15	_
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er	His	nlS	Thr 20	ASN	LLO	rys	val	Thr 25	met	Pue	ser	Pro	His 30	Lys	Pro
•			_0										20	-	
Lys	Gly		Tyr	Val	Leu	Ile	Ser	Leu	Ile	Val	Val	Thr	Ile	Ser	Gln
		35					40					45			

Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile

55

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Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr 50 55 60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser 65 70 75 80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly 85 90 95

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Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
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Lys Arg 130

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Met	Ala	Ala 35	Ala	Glu	Gly	Ser	Ser 40	Gly	Pro	Ala	Gly	Leu 45		.: Leu	Gly
Arg	Ser 50		Ser	Asn	Tyr	Arg 55	Pro	Phe	Glu	: Pro	Gln 60		Leu	Gly	Leu
Ser 65	Pro	Ser	Trp		Leu 70	Thr	Gly		Ser	Gly 75	Met	Lys	Gly		: <i>I</i> 180
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<21	0> 8: 1> 5: 2> Pi		· ·		-		÷ *	2.1		· - '	•	•	2 i		. :
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	1> :s:			. %					·	ž		• :)	- 	<u>.</u>	;
	2> (8 3> Xa	B) aa e	quals	any	, of	the	nati	ıral	lv o	ccuri	rina	L-a	nino	aci	ds
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			100	1				105	5				110)	
Pro	Pro	11e			Leu		Lys		Gly	/ Ile	e Leu	125		e Leu	ı Val
Lys	Cys 130		Glu	Arg	Asp	Asp 135		Pro) Ser	Leu	Gln 140		Glu	ı Ala	a Ala
Trp		Leu	Thr		11e				Thr				Thr	Gln	Ala 160
Val	Val	Gln	Ser	Asn 165			Pro		Phe					_	Ser
Pro	His	Gln	Asn 180				Gln								Ile
Ile	Gly	Asp 195		Pro		Cys	Arg 200		Tyr		Ile			_	Val
Val	Lys 210		Leu	Leu -		Phe 215		Ser		Ser	Ile 220		Ile		Phe
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Pro	Pro	Pro	Pro	Met 245		Thr	Val		Glu 250		Leu	Pro	Ala	Leu 255	Cys
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Thr	Gly	Thr	Asp	Glu 325	Gln	Thr	Gln	Val	Val 330	Leu	Asn	Cys	Asp	Val 335	Leu
Ser	His	Phe	Pro. 340	Asn	Leu	Leu,	Ser	His 345	Pro	Lys	Glu:	Lys ·	11e 350	Asn	Lys
Glu	Ala,	Val 355	Trp	Phe	Leu	Ser	Asn 360	Ile	Thr	Ala	Gly	Asn- 365	Gln	Gln	Gln
Val	Gln	Ala	Val	Ile	Asp	Ala.	Glv	Leu	Ile	Pro	Met	Ile	Ile	His	Gln

	370)				375	•				380)			
Leu 385		Lys	Gly	/ Asp	9 Phe		Thr	Glr	ı. Lys	395		Ala	Trp	Ala	11e
Ser	Asn	Lev	Thr	1le 405		Gly	Arg	Lys	410		Val	. Glu	ı Tyr	Leu 415	
Gln	Gln	Asn	Val 420		Pro	Pro	Phe	: Cys 425		Leu	Leu	Ser	Val 430	_	:: Asp
Ser	Gln	Val 435		Glņ	Val	Val	Leu 440	Asp	Gly	Leu	Lys	Asn 445		Leu	Ile
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Gly 465	Gly	Leu	Glu	Lys	Ile 470	Glu	Val	Leu	Gln	Gln 475		Glu	Asn	Glu	Asp 480
Ile	Tyr	Lys	Leu	Ala 485		Glu	Ile	Ile	Asp 490	Gln	Tyr	Phe	Ser	Gly 495	Asp :
Asp	Ile	Asp	Glu 500		Pro	Cys	Leu	Ile 505		Glu	Ala	Thr	Gln 510	Gly	Gly
Thr.	Tyr	Asn 515	Phe	Xaa	Pro.	Thr	Ala 520	Asn	Leu	Gln	Thr	Lys 525	Glu	Phe	Asn
Phe		٠													-
								* - '		- 1 :				·	
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Arg)> 86 Pro		Pro		Arg	Arg	: Arg	Gly		Val	Glu	 Leu	Ile	Lys	Phe
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Val	Arg	Val	Gln 20	Trp	Arg	Arg	Pro	Gln 25	Val	Glu	Trp	Arg	Arg 30	Arg	Arg
rp	Gly	Pro 35	Gly 	Pro	Gly	Ala	Ser 40	Met	Ala	Gl <u>y</u>	Ser	Glu 45	Glu	Leu	Gly
Leu.	Arg	Glu	Asp	Thr	Leu	Arg	Val	Leu	Ala	Ala	Phe.	Leu	Arg	Arg	Gly

Glu 65		Ala	Gly	Ser	Pro 70	Val	Pro	Thr	Pro	Pro 75	Arg	Ser	Pro	Ala	Glr 80
Glu	Glu	Pro	Thr	Asp 85	Phe	Leu	Ser	Arg	Leu 90		Arg	Cys	Leu	Pro 95	Cys
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Glu	Lys	Glu	Ala	Ile 165	Leu	Arg	Arg	Leu	Val 170	Ala	Leu	Leu	Glu	Glu 175	Glu
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Ser	Val 210	Ala	Gly	Met	Thr	Ala 215	Leu	Ala	Gln	Ala	Glu 220	His	Ala	Pro	Gly
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Ser	Asp	Ser	Ala	Ala	Ala	Pro	Glv	Glv	Glv	Glv	Ala	Ala	Ara	Asn	Phe
	-		20					25	3	1			30		
													30		•
Pho	Dhe	Dha	Cla	mb-	7.00	2	~ 1	310	21.						_
FIIE	PILE		Gln	THE	ASP	Arg		Ala	Ата	Ala	Asp		ser	Thr	Pro
		35					40					45			
_															
Ala	Arg	Arg	Arg	Leu	Met	Arg	Asp	Phe	Lys	Arg	Leu	Gln	Glu	Asp	Pro
	50					55				•	60				
Pro	Val	Gly	Val	Ser	Gly	Ala	Pro	Ser	Glu	Asn	Asn	Ile	Met	Gln	Trp
65					70					75				:	80
Asn	Ala	Val	Ile	Phe	Glv	Pro	Glu	Glv	Th r	Pro	Phe	Gliv	Acn	G1v	.Th +°
				85					90			. U _u.	,rsp.	. 95	
									,,,					. 93	
Pho	T	T 011	57 a 7 .	T 1'-	C1	nh a.		63 .4	~ 3.55			.	_	_	
FIIE	rys	Leu	Val.	116	GIU	Pne:	ser		GIU	TYE	Pra		_	Pro	Pro.
			100					105				,	110		
									`.						
Thr	Val	Arg	Phe	Leu	Ser	Lys	Met.	Phe	His	Pro	Asn.	Val	Tyr	Ala	Asp
		115					120					125			
Gly	Ser	Ile	Cys	Leu	Asp	Ile	Leu	Gln	Asn:	Arg	Trp	Ser-	Pro	Thr	Tvr
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Asp	Val	Ser	Ser	Tle	Leu.	Thir	Ser	Tle	Gla	Ser	T.eur	T.Au	Acn.	Glu	Dro
145					150					155		Deu	rab.	Glu	
145				•	130					133					160
2	D.o.	3	C	D		•		01-				_	_		
ASII	PIO	ASI	Ser		ALA	Asn.	ser	GIn.		ATA:	Gin	Leu	_		Glu.
				165					170					175	
												•			
Asn	Lys	Arg	Glu	Tyr	Glu.	Lys	Arg	Val	Ser	Ala	Ile	Val	Glu	Gln.	Ser
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Trp	Asn	Asp	Ser												
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:0>														
1> s	ITE													
2> (9)												•	
		qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
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Asp	Ala	Trp	Val	Ala	Xaa	Ala	Xaa	Ala	Ser	Ser	Gly	Leu	Val	Va]
			5					10					15	
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Arg	Pro	Thr	Ser	Ala	Val	Pro	Ala	Glu	Pro	Arg	Pro	Phe	Arg	Pro
		20					25				:	30		
													-	
Pro	Pro	His	Leu	Ala	Ala	Met	Arg	Leu	Arg	Arg	Leu	Ala	Leu	Phe
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Gly	Val	Ala	Leu	Leu	Leu	Ala	Ala	Ala	Arg	Leu	Ala	Ala	Ala	Ser
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Val	Leu	Glu	Leu	Thr	Asp	Asp	Asn	Phe	Glu	Ser	Arg	·Ile	Ser	Asp
				70					75					· 80
					-						•			
Gly	Ser	Ala	Gly	Leu	Met	Leu	Val	Glu	Phe	Phe	Ala	Pro	Trp	Cys
			85					90					95	
													,	
His	Cys		Arg	Leu	Ala	Pro		Tyr	Glu	Ala	Ala	Ala	Thr	Arg
		100					105					110	;	
	· _	_												
Lys		Ile	Val	Pro	Leu		Lys	Val	Asp	Cys		Ala	Asn	Thr
	115					120					125			•
mb	a	•		_					_			_		
	Cys	Asn	Lys	Tyr		Val	Ser	GIY	Tyr		Thr	Leu	Lys	Ile
130					133					140				
Ara	700	C1.	G1.	C1	n 1 -	C1	n 1 a	m	* ~ ~	C1	Des	N i-	mb	
nrg	тэр	GLY	GLU		NIG.	GIY	ALG.	TAT		GLY	PIO	Arg	THE	
	•			130					133					160
Glv	Tle	Val	Ser	Hie	T.eu	Luc	T.ve	Glo	Δla	Glv	Pro	בומ	Sor	Wa I
1					u	2,3	n, o			017		nia		val
			103			-					-		1,3	
Leu	Ara	Thr	Glu	Glu	Glu	Phe	Lvs	Lvs	Phe	Ile	Ser	Asp	Lvs	Asp
	,							-1-					-, -	
					,								•	
Ser	Ile	Val	Glv	Phe	Phe	Asp	Asp	Ser	Phe	Ser	Glu	Ala	His	Ser
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Phe	Leu	Lys	Ala	Ala	Ser	Asn	Leu	Arg	Asp	Asn	Tyr	Arq	Phe	Ala
210	- '	-			215			-	-	220	-	-		_
Thr	Asn	Val	Glu	Ser	Leu	Val	Asn	Glu	Tyr	Asp	Asp	Asn	Gly	Glu
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Lys	Arg	Туr	Leu	Lys 405	Ser	Glu	Pro	Ile	Pro 410	Glu	Ser	Asn	Asp	Gly 415	Pro
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Asp 465	Pro	Asn ⁻	Ile	Val	Ile: 470	Ala	Lys	Met	Asp	Ala 475	Thr	Ala	Asn	Asp	Val 480
Pro	Ser	Pro	Tyr	Glu 485	Val	Arg	Gly		490		Ile		Phe	Ser 495	Pro
Ala	Asn	Lys	Lys 500	Leu _.	Asn	Pro			Tyr		Gly		Arg	Glu	Leu

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<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe 1 5 10 15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
20 25 30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
35 40 45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly 50 55 60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met 65 70 75 80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro 85 90 95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu 100 105 110

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<210> 871
 <211> 124
 <212> PRT
 <213> Homo sapiens
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 Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
 Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
                                                                             40
Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
      50
Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
  Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
           Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
           115
                                                the state of the s
<210> 872
<211> 35
<212> PRT
<213> Homo sapiens
<400> 872
Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
                                                                                          10 15:
           5 10
Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
                                                                                     25
Lys Ile Val
                    35
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<210> 873 <211> 420

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<21	3> н	omo	sapi	ens											
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Val 1		Leu	Gln	Leu 5		Gln	Ser	Thr	Val		Cys	Pro	Leu	Gly 15	_
Leu	Ala	Ser	Thr 20	Ala	Thr	Asn	Asp	Cys 2.5		Cys	Thr	Thr	Thr		СУ
Leu	Pro	Asp 35		Val	Cys	Val	His 40		Ser		Ile	Туг 45		Val	Gly
Gln	Phe 50	Trp	Glu	Glu	Gly	Cys - 55			Cys		Cys 60	Thr	_	Met	Glu
Asp 65	Ala	Val	Met	Gly	Leu 70	Arg	Val	Ala	Gln	Cys 75		Gln	Lys	Pro	Cys
Glu	Asp	Ser	Cys	Arg 85	Ser	Gly	Phe	Thr	Туг 90		Leu	His	Glu	Gly 95	Glu
Cys	Cys	Gly	Arg 100	Cys	Leu	Pro	Ser	Ala 105	Cys	Glu	Val	Val	Thr 110	Gly	Ser
Pro	Arg	Gly 115	Asp	Ser	Gln	Ser	Ser 120	Trp	Lys	Ser	Val	Gly 125	Ser	Gln	Trp
Ala	Ser 130	Pro	Glu	Asn	Pro	Cys 135	Leu	Ile	Asn	Glu	Cys 140	Val	Arg	Val	Lys
31u 145	Glu	Val	Phe	Ile	Gln 150	Gln	Arg	Asn	Val	Ser 155	Cys	Pro	Gln	Leu	Glu 160
Val	Pro	Val	Cys	Pro 165	Ser	Gly	Phe	Gln	Leu 170	Ser	Cys	Lys	Thr	Ser 175	Ala
Cys	Cys	Pro	Ser 180	Cys	Arg	Cys	Glu	Arg 185	Met	Glu	Ala	Cys	Met 190	Leu	Asn
3ly	Thr	Val 195	Ile	Gly	Pro	Gly	Lys 200	Thr	Val	Met	Ile	Asp 205	Val	Cys	Thr
Chr	Cys 210	Arg	Cys	Met	Val	Gln 215	Val	Gly	Val	Ile	Ser 220	Gly	Phe	Lys	Leu
31u 225	Cys	Arg	Lys	Thr	Thr 230	Cys	Asn	Pro	Cys	Pro 235	Leu	Gly	Tyr	Lys	Glu 240
31u	Asn	Asn	Thr	Gly 245	Glu	Cys	Cys	Gly	Arg 250	Cys	Leu	Pro	Thr	Ala 255	Cys

Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu

260 . 265 Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg 280 Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp 295 300 Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly 305 310 ... 315 Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala 325 Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val 345 Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser 355 360 365 Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr 375 Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val 385 390 395 Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg 405 410 Lys Cys Ser Lys 420 <210> 874 <211> 151 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (90) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (103) <223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 874
Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly
                                    10
Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gli
Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
     50
                        55
Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
                     70
Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Glý Met Ala Asn Gly Asp
            . 85
                                    90
Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
                           120
Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
   130
                        135
Ser Lys Ser Val Gly Ser Leu
145
<210> 875
<211> 95
<212> PRT
<213> Homo sapiens
<400> 875
Ala Leu Asn Leu Asn Ser Gln Leu Asn'lle Pro Lys Asp Thr Ser Gln
                            10
Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
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Arg Leu Cys Leu Ser Thr Asp Ala Ala Pro Gln Thr Met Val Met

35 40 45 Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser 55 60 50 Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr 75. Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu 85 90 <210> 876 <211> 238 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (7) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (15) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr 25 Ser Leu Leu Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala 35 40

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe

60

Glu 65	Lys	Ser	Arg	Leu	Asp 70	Gln	Glu	Leu	Lys	Leu 75	Ile	Gly	Glu	Tyr	Gly 80
Leu	Arg	Asn	Lys	Arg 85	Glu	Val	Trp	Arg	Val 90		Phe	Thr	Leu	Ala 95	Lys
Ile	Arg	Lys	Ala 100	Ala	Arg	Glu	Leu	Leu 105	Thr	Leu	Asp	Glu	Lys 110	Asp	Pro
Arg	Arg	Leu 115	Phe	Glu	Gly	Asn	Ala 120	Leu	Leu	Arg	Arg	Leu 125	Val	Arg	Ile
Gly	Val 130	Leu	Asp	Glu	Gly	Lys 135	Met	Lys	Leu	Asp	Tyr 140	Ile	Leu	Gly	Leu
Lys 145	Ile	Glu	Asp	Phe	Leu 150	Glu	Arg	Arg	Leu	Gln 155	Thr	Gln	Val	Phe	Lys 160
Leu	Gly	Leu	Ala	Lys 165	Ser	Ile	His	His	Ala 170		Val	Leu	Ile 	Arg 175	Gln
Arg	His	Ile	Arg 180			Lys	Gln	Val 185	Val	Asn	Ile	Pro	Ser 190	Phe	Ile
Val	Arg	Leu 195	Asp	Ser	Gln	Lys	His 200	Ile	Asp	Phe 	Ser	Leu 205	Arg	Ser	Pro
	Gly 210	Gly	Gly	Arg	Pro	Gly 215	Arg	Val	Lys	Arg	Lys 220	Asn	Ala	Lys	Lys
Gly 225	Gln	Gly	Gly	Ala	Gly 230	Ala	Gly	Asp		Glu 235	Glu	Glu 	Asp		
<210	> 87	7							•						
	> 79 > PR								,						
			apie	ns											
<400	> 87	7													
Ala 1	Gly	Ile	Arg	His 5	Glu	Pro	Ser	Ala	Ala 10	Ala	Met	Ser	Ser	Gly 15	Ala
Ser	Ala	Ser	Ala 20		Gln	Arg	Leu	Val 25	Glu	Gln	Leu	Lys	Leu 30	Glu	Ala

Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln

Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro

50 55 60 Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu 70 . 75 <210> 878 <211> 136 <212> PRT <213> Homo sapiens <400> 878 Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His 25 Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala 35 40 45 Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp 65 70 75 80 Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg 85 90 · His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu 105 Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val 120 125 Gly Ala Gly Lys Lys Pro Lys Glu 130 135 <210> 879 <211> 141 <212> PRT <213> Homo sapiens <400> 879

Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala

10

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Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
           2.0
                         25
 Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
                         40
 Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
     50 55 60
Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lýŝ Ala Leu Ala Asn
        70
Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
                               90 . 95
                                     . . .
Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
                        105 . 110
Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
       115 120 125
Glu Glu Ser Asp Asp Met Gly Phe Gly Leu Phe Asp
    130 135 140
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                                    10
Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
           20: . . . .
                                25
Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
                            40
Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
                 85
Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
           100
                    105 110
Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
                    120
Leu Xaa Xaa Cys Pro
    130
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		136)													
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<22	0>														
<22	1> s	ITE													
<22	2> (171)													
<22	3> x	aa e	qual	s an	y of	the	nat	ural	ly c	ccur	ring	L-a	mino	aci	.ds
<40	0> 8	81	•												
Ile 1	Glu	Glu	Pro	`Arg		Thr	Arg		Gln - 10		Cys	Ser	Xaa	Val	
_								,		•				13	
Ile	Trp	Cys	Leu 20	Asp	Lys	Phe	Lys	Met 25		Lys	His	Arg	His 30		Pro
Leu	Val	Ala 35	Val	Phe	Cys	Leu	Phe 40	Leu	Ser	Gly	Phe	Pro		Thr	His
Ala	Gln 50	Gln	- Gln	Gln	Ala	Val	Ile	Glu	Val	Asn	Lys 60	Arg	Asp	Ile	.Va]
Phe 65	Leu	Val	Asp	Gly	Ser 70	Ser	Ala	Leu	Gly	Leu 75	Ala	Äsn	Phe	Asn	Ala 80
Ile	Arg	Asp	Phe	Ile 85	Ala	Lys	Val	Ile	Gln 90	Arg	· Leu	Glu	Ile	Gly 95	Gln
Asp	Leu	Ile	Gln 100	Val	Ala	Väl	Ala	Gln 105	Tyr	Ala	Asp	Thr	Val	Arg.	Pro
Glu [*]	Phe	Туг 115	Phe	Asn	Thr	His	Pro 120	Thr	Lys	Arg.	Xaa	Val 125	Ile	Thr	Ala
Val	Arg 130	Lys	Met	Lys	Pro	Leu 135	Xaa	Gly	Ser		Leu 140	Tyr	Thr	Gly	Ser
Ala 145	Leu	Asp	Phe	Val	Arg 150	Asn	Asn	Leu	Phe	Thr 155	Ser	Ser	Ala	Gly	туг 160
Arg	Ala	Ala	Glu	Gly 165	Ile	Pro	Lys		Leu 170	Xaa	Leu	Ile	Thr	Gly 175	Gly
Lys	Ser	Leu	Asp 180	Glu	Ile	Ser	Gln	Pro 185	Ala	Gln	Glu	Leu	Lys 190	Arg	Ser
Ser	Ile	Met 195	Ala	Phe	Ala	Ile	Gly 200	Asn	Lys	Gly	Ala	Asp 205	Gln	Ala	Glu
	Glu	Glu	Ile	Ala		Asp	Ser	Ser	Leu	Val	Phe	Ile	Pro	Ala	Glu

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Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
                                         235
Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
                                     250
Ile Ile Phe Leu
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<213> Homo sapiens
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<40	0> 8	82													
Xaa	Xaa	Glu	Ser	Glu	хаа	Ser	Phe	: Xaa	Cys	Arg	Lys	xaa	a Ile	Ile	2 Xa
1				5	•				10)		•		15	•
Phe	Leu	. Xaa	Tyr 20		Arg	Val	Val	. Phe		Lys	Glr	ı Lev	Ala 30		Gl
Leu	Leu	Leu 35			Gly		Leu 40		Leu	ı Asn	Arç	y Val 45		Leu	Ar
Arg	Thr 50		Gln	Lys	Phe	Val		Ala	Thr	Ser	Thr		Ile	Asp	Ile
ser 65	Asn	Val	Lys		Pro		His	Leu	Thr	Asp 75		Tyr	Phe	Lys	Lys 80
Lys	Lys	Leu	Arg	Lys 85	Pro	Arg	His	Gln	Glu 90	Gly	Glu	Ile	Phe	Asp 95	Thi
Glu	Lys		Lys 100	Tyr	Glu	Ile	Thr	Glu 105		Arg	Lys	Ile	Asp 110	Gln	Lys
Ala	Val	Asp 115	Ser	Gln	Ile	Leu		Lys	Ile	Lys	Ala	Ile 125	Pro	Gln	Leu
Gln	Gly 130	Tyr	Leu	Arg		Val 135		Ala	Leu	Thr	Asn 140		Ile	Tyr	Pro
His 145	Lys	Leu	Val	Phe	-	٠						-		-	
<211	> 88 > 29 > PF	6				•					•				
<213	> Hc	omo s	apie	ens											
< 4 0 0	> 88	17													
			Val	Val · 5	Val	Leu	Ala	Val	Ser 10	Ala	Gly	Ala	Gly	Ser 15	Ala
lis	Pro	Arg	Gln 20	Asn	Lys	Tyr	Ser	Val 25	Leu	Leu	Pro	Thr	Tyr 30	Asn	Glu
Arg (Glu	Asn 35	Leu	Pro	Leu	Ile	Val 40	Trp	Leu	Leu	Val	Lys 45	Ser	Phe	Ser
Slu :	Ser 50	Gly	Ile	Asn	Tyr	Glu 55	Ile	Ile	Ile	Ile	Asp 60	Asp	Gly	Ser	Pro

Asp 65		Thr	Arg	Asp	70		Glu	Gln	Leu	Glu 75	Lys	Ile	Tyr	Gly	Ser 80
Asp	Arg	Ile	Leu	Leu 85		Pro	Arg	Glu	Lys 90		Leu	Ģly	Leu	Gly 95	Thr
Ala	Tyr 	Ile	His 100	Gly	Met	Lys	His	Ala 105		Gly	Asn	Tyr	Ile 110	Ile	Ile
Met	Asp	Ala 115		Leu	Ser	His	His 120	Pro	Lys	Phe	Ile	Pro 125	Glu	Phe	Ile
Arg	Lys 130	Gln	Lys	Glu	Gly	Asn 135	Phe	Asp	Ile	Val	Ser 140	Gly	Thr	Arg	Tyr
Lys 145		Asn	Gly	Gly :	Val 150	Tyr	Gly	Trp	Asp	Leu 1,55	Lys	Arg	Lys	Ile	11e 160
Ser	Arg	Gly	Ala	Asn 165	Phe	Leu	Thr	Gln	Ile 170	Leu	Leu	Arg	Pro	Gly 175	Ala
Ser	Asp	Leu	Thr 180	Gly	Ser	Phe	Arg	Leu 185	Tyr	Arg	Lys	Glu	Val 190	Leu	Glu
Lys	Leu	11e 195	Glu	Lys	Cys	Val	Ser 200	Lys	Gly	Tyr	Val	Phe 205	Gln	Met	Glu
Met	11e 210	Val	Arg	Ala	Arg	Gln 215	Leu	Asn	Tyr	Thr	Ile 220	Gly	Glu	Val	Pro
Ile 225	Ser	Phe	Val	Asp	Arg 230	Val	Tyr	Gly	Glu	Ser 235	Lys	Leu	Gly	Gly	Asn 240
Glu	Ile	Val	Ser	Phe 245	Leu	Lys	Gly	Leu	Leu 250	Thr	Leu	Phe	Ala	Thr 255	Thr

<210> 884

<211> 449

<212> PRT

<213> Homo sapiens

<400> 884

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
1 5 10 15

Ala	Lys	Gly	Asp 20		g Gly	Glu	ı Thr	Gl ₃		Ala	a Gly	Pro	Pro 30		/ Ala
Pro	Gly	Ala 35		Gly	Ala	Pro	Gly 40		Val	Gl _y	Pro	Ala 45		, Lys	Ser
Gly	Asp 50		Gly	Glu	Thr	Gly 55	Pro	Ala	Gly	Pro	Ala 60		Pro	Val	. Gly
Pro 65		Gly	. Ala	Arg	Gly 70		Ala	Gly	Pro	75		Pro	Arg	Gly	Asp 80
Lys	Gly	Glu	Thr	Gly 85		Gln	Gly	Asp	Arg 90		Ile	Lys	Gly	His 95	-
Gly	Phe	Ser	Gly 100	Leu	Gln	Gly	Pro	Pro 105		Pro	Pro	Gly	Ser 110		Gly
		115			-		Ser 120	•				125			-
	130					135			* * .		140				
145		٠.,		•	150		Pro		-	155					160
	•			165	:		Pro	-	. 17.0.		_			175	
			180				Ser	185					190	,	
		195					Tyr 200	. :				205		•	-
	210					215	Val				220				
225			-		230.		Ser	-		23.5	**				240
٠	•			245			Lys		250			• -		255	
			260	٠				265			•	- 1.	2,70		
Lys							Thr 280						Tyr	Pro	Thr

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys 295 290 Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln 310 315 Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln 325 330 Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr 345 Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn 360 365 Leu Lys Lys Ala Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg 370 375 380 Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys <u>- 3</u>90 395 Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr 410 Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val 420 425 Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe 440 Leu <210> 885 <211> 64 <212> PRT <213> Homo sapiens

834

50

55

60

<210> 886 <211> 132 <212> PRT <213> Homo sapiens Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg 1 5 10 15 Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly 20 25 30 Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu 50 55 Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala 85 90 Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu 115 120 Lys Asn Val Asn 130

<210> 887
<211> 70
<212> PRT
<213> Homo sapiens
<400> 887
Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
1 5 10 15

Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val 20 25 30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu 35 40 45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn 50 55 60

Cys Arg Thr Trp Pro His 65 70

<210> 888

<211> 373

<212> PRT

<213> Homo sapiens

<400> 888

Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu 1. 5 10 15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser 20 25 30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Glu Glu Tyr 35 40 45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser 50 55 60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys 65 70 75 . 80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu 85 90 95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu 100 105 110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr 115 120 125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln 130 135 140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp 145 150 155 . 160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

												•			
				165	5				170)				175	i
Arç	, Asp) Ile	: Asn 180	Arg	y Val	. Туг	Arg	Glu 185		Leu	Lys	Arg	190		Ala
Lys	Asp	11e		Ser	Asp	Thr	Ser 200		Asp	Phe	Arg	Asn 205		Leu	Lei
Ser	Leu 210		Lys	Gly	Asp	Arg 215		Glu	Asp	Phe	Gly 220	Va l	Asn	Glu	Asp
Leu 225		Asp	Ser	Asp	Ala 230		Alạ	Leu	Tyr	Ģlu 235		Gly	Glu	Arg	Arç 240
Lys	Gly	Thr	Asp	Val 245	Asņ	Val	Phe	Asn	Thr 250	Ile	Leu	Thṛ	Thr	Arg 255	Ser
Tyr	Pro	Gln	Leu 260	Arg	Arg	v ạl	Phe	Gln 265	Lys	Tyr	Thr	Lys	Tyr 270	Ser	Lys
His	Asp	Met 275	Asn	Lys	Val	Leu	Asp 280	Leu	Gļu	Leu	Lys	Gly. 285	Asp	Ile	Glu
Lys	Cys 290	Leu	Thr	Ala	Ile	Val 295	ĻУS	Cys	Ala	Thr 	Ser 300	Lys	Pro	Ala	Phe
Phe 305	Ala	Glu	Lys	Leu	His 310	Gln	Ala	Met	ŗys	Gly 315	Val	Gly	Thr	Arg	His 320
Lys	Ala	Leų	Ile	Arg 325	Ile	Met	Val	Ser	Arg 330	Ser	Glu	Iļe	Asp	Met;	Asn
Asp	Ile	Lys	Ala 340	Phe	Tyr	Gln	Lys	Met 345	Туг	Gly	Ile	Ser	Leu 350	Cys	Gln
Ala	Ile	Leu 355	Asp	Glu	Thr	Lys	Gly 360	Asp	Tyr	Gļu	Lys	Ile 365	Leu	Val	Ala
Leu	Cys 370	Gly	Gly	Asn							•.		•		
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<212	> PR	T													

<213> Homo sapiens

<220>
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Gly Arg Lys Lys His Leu Xaa Ala Arg Leu Val Thr Glu Met Asp Ser
Lys Tyr Gln Cys Val Lys Leu Asn Asp Gly His Phe Met Pro Val Leu
Gly Phe Gly Thr Tyr Ala Pro Ala Glu Val Pro Lys Ser Lys Ala Leu
         35
Glu Ala Xaa Lys Leu Ala Ile Glu Ala Gly Phe Xaa His Ile Asp Ser
Ala His Xaa Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser
 65
                     70
                                          75
Lys Ile Ala Asp'Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser
                 85
Lys Leu Trp Xaa Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu
                                105
Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu
       115
                            120
                                                125
```

Ile	His		Pro	o Val	. Ser	Val		Pro	Gly	7 Glu	140		lle	Pro	Lys
Asp 145		Asn	Gly	' Lys	11e		Phe	Asp	Thr	Val		Leu	Cys	. Ala	Thr 160
Trp	Glu	Ala	Val	. Glu 165		Cys	Lys	Asp	170	Gly	Leu	Ala	Lys	Ser 175	
Gly	Val	Ser	Asn 180		Asn	Xaa	Arg	Gln 185		Glu	Met	Ile	Leu 190		Lys
Pro	Gly	Leu 195	Lys	Tyr	Lys	Pro	Val 200			Gln	Val	Glu 205	Cys	His	Pro
туr	Phe 210	Asn	Gln	Arg	Lys	Leu 215	Leu		Phe	Cys	Lys 220	Ser	Lys	Asp	Ile
Val 225	Leu	Val	Ala	Tyr	Ser 230	Ala	Leu	Gly	Ser	His 235	Arg	Glu	Glu	Pro	Trp 240
Val	Asp	Pro	Asn	Ser 245	Pro	Val	Leu	Leu	Glu 250	Asp	Pro	Val	Leu	Cys 255	Ala
Leu	Ala	Lys	Lys 260	His	Lys	Arg	Thr	Pro 265	Ala	Leu	Ile	Ala	Leu 270	Arg	Tyr
Gln	Leu	Gln 275	Arg	Gly	Val	Val	Val 280	Leu	Ala	Lys	Ser	Tyr 285	Asn	Glu	Gln
Arg	Ile 290	Arg	Gln	Asn	Val	Gln 295	Val	Phe	Glu	Phe	Gln 300	Leu	Thr	Ser	Glu
Glu 305	Met	Lys	Ala	Ile	Asp 310	Gly	Leu	Asn	Arg	Asn 315	Val	Arg	Tyr	Leu	Thr 320
Leu	Asp	Ile	Phe	Ala 325	Gly	Pro	Pro	Asn	Tyr	Pro	Phe	Ser	Asp	Glu	

<210> 890

<211> 195

<212> PRT

<213> Homo sapiens

<400> 890

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Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
                    70
                                       75 ·
Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
                85
                                   90
Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
                   . 120
Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
                       135
Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
                  150
                                      155
Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
               165
                       170
His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
                               185
Ala Lys Glu
       195
```

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Leu Ile Leu Ser Thr Lys 195

<210> 892

<211> 95

<212> PRT

<213> Homo sapiens

30 -- 1 1: 1951 1 2 7 <u>-- 1</u>

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 Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
                                     10
 Pro His Arg Arg His Thr Ala Ala Ser Val Met Pro Lys His Glu
 Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
                             40
Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
                         55
Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
                                         75
Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
               85
<210> 893
<211> 123
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Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
                  5
                                    10
Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
             20
Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
                             40
Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
    50
```

Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

65	5				70	•				75	5				8
Leu	Ile	e Va	l Ile	e Pro 85		. Arg	y Val	l His	5 Phe 9(Ph∈	e Met	Leu	Phe 95	
Pro	Суя	s Ile	e Asr 100		His	Leu	Thr	Lys 105		e Thr	Glr	ı Lei	lle 110		Ly
Lys	Lys	115	s Asn	. Xaa	Gly	Gly	Gly 120		Gly	Thr	•				
		٠.			-			٠.	-					•	
<21 <21	0> 8 1> 1 2> F	.72 PR T	ż			-		-		.:	.:				. •
-	o> 8		sapi	ens ·	· v			ŗ	•	. :	- :		~		:
			. Tyr	Cys 5		Lys		Ala			Asn	Ile	Gly	Asn 15	Val
Leu	Pro	Val	. Gly 20				Glu			Ile	Val	Cys	Cys 30	Leu	Glu
Glu	Lys	Pro 35	Gly	Asp	Arg	Gly		Leu			Ala		Gly	Asn	туг
Ala	Thr 50		Ile	Ser	His	Asn 55	Pro	Glu	Thr	Lys	Lys 60	Thr	Arg	Val	Lys
Leu 65	Pro	Ser	Gly	Ser	Lys 70	Lys		Ile		Ser 75	Ala	Asn	Arg	Ala	Val 80
Val	Gly	Val	Val	Ala 85	Gly		Gly	Arg	Ile 90	Asp	Lys	Pro	Ile		Lys
Ala	Gly	Arg	Ala 100	Tyr	His			Lys 105	Ala	Lys	Arg	Asn	Cys 110	Trp	Pro
Arg	Val	Arg 115	Gly	Val	Ala 	Met	Asn 120	Pro	Val	Glu	His	Pro 125	Phe	Gly	Gly -
Gly	Asn 130	His	Gln	His 				Pro					Arg	Asp	Ala
Pro 145	Ala	Gly	Arg	Lys	Val. 150	Gly	Leu	Ile	Ala	Ala 155	Arg T	Arg	Thr	Gly	Arg 160
Leu	Arg	Gly	Thr		Thr						Asn 		v		

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<211> 171
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Asn Arg Glu Gly Ser Lys Gly Val Glu Thr Arg Arg Val Leu Val Gly
Glu Gln Gln Cys Xaa Asp Ala Lys Ser Gln Gln Lys Glu Gln Met
Leu Leu Clu Xaa Lys Ser Ala Ala Tyr Ser Gln Val Leu Leu Arg
Cys Leu Thr Leu Leu Gln Arg Leu Leu Gln Glu His Arg Leu Lys Thr
                        55
Gln Ser Glu Leu Asp Arg Ile Asn Ala Gln Tyr Leu Glu Val Lys Cys
Gly Ala Met Ile Leu Lys Leu Arg Met Glu Glu Leu Lys Ile Leu Ser
                 85
Asp Thr Tyr Thr Val Glu Lys Val Glu Val His Arg Leu Ile Arg Asp
                                105
Arg Leu Glu Gly Ala Ile His Leu Gln Glu Gln Asp Met Glu Asn Ser
                            120
Arg Gln Val Leu Asn Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
   130
Leu Val Lys Glu Tyr Thr Val Leu Lys Gln Ala Thr Glu Asn Lys Arg
Trp Ala Leu Gln Glu Phe Ser Lys Val Tyr Arg
               165
                                    170
```

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<210> 896 .....
<211> 99
<212> PRT
<213> Homo sapiens
Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
                           25
Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
                         40
Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
                      55
Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
              85
                                90
Asp His Ser
<210> 897
<211> 289
<212> PRT
<213> Homo sapiens
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     مولوعها والأناف والمراجع المراث والمعارف
<400> 897
Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1 10 10 1 1 15
Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
               .25
     20
Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
          40 45
```

Asp	His 50		Thr	Pro	Pro	Ser 55		Tyr	Gly	Ser	Val 60		Ala	Tyr	Thi
Asn 65	Phe	Asp	Ala	Glu	Arg 70	Asp	Ala	Leu	Asn	Ile 75		Thr	Ala	Ile	Lys 80
Thr	Lys	Gly	Val	Asp 85	Glu	Val	Thr	Ile	Val 90		Ile	Leu	Thr	Asn 95	
Ser	Asn	Ala		Arg	Gln	Asp	Ile	Ala 105		Ala	Tyr	Gln	Arg 110		Thr
Lys	Lys	Glu 115	Leu	Ala	Ser	Ala	Leu 120	Lys	Ser	Ala	Leu	Ser 125	_	His	Leu
Glu	Thr 130	Val	Ile	Leu	Gly	Leu 135	Leu	Lys	Thr	Pro	Ala 140	Gln	Tyr	Asp	Ala
Ser 145	Glu	Leu	Lys	Ala	Ser 150	Met	Lys	Gly	Leu	Gly 155	Thr	Asp	Glu	Asp	Ser 160
Leu	Ile	Glu	Ile	Ile 165	Cys	Ser	Arg	Thr	Asn 170	Gln	Glu	Leu	Gln	Glu 175	Ile
Asn	Arg	Val	туг 180	Lys	Glu	Met	Туr	Lys 185	Thr	Asp	Leu	Glu	Lys 190	Asp	Ile
Ile	Ser	Asp 195	Thr	Ser	Gly	Asp	Phe 200	Arg	Lys	Leu	Met	Val 205		Leu	Ala
Lys	Gly 210	Arg	Arg	Ala	Glu	Asp 215	Gly	Ser	Val	Ile	Asp 220	Tyr	Glu	Leu	Ile
Asp 225	Gln	Asp	Ala	Arg	Asp 230	Leu	Tyr	Asp	Ala	Gly 235	Val	Lys	Arg	Lys	Gly 240
Thr	Asp	Val	Pro	Lys 245	Trp	Ile	Ser	Ile	Met 250	Thr	Glu	Arg	Ser	Xaa 255	Pro
Thr	Ser	Arg	Lys 260	Tyr	Leu	Ile	Gly	Thr 265	Arg	Val	Thr	Ala	Leu 270	Met	Thr
Cys	Trp	Lys 275	Ala	Ser	Gly	Lys	Arg 280	Leu	Lys	Glu	Thr	Trp 285	Lys	Met	Leu

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Asn Pro Arg Gly Lys Val Ala Gly Phe Asp Leu Asp Gly Thr Leu Ile
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Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
                                 25.
Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
         35
                             40
Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
                     70
                                        75.
Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
                              105
Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
        115
                            120
Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Asp
                        135
Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
                   150
                                       155
Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
                165
Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
                               185
Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
        195
                           200
                                                2.05
Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr
```

847

210 215 220 Ser Cys Arg Pro Asp Met Ser Thr 230 <210> 899 <211> 218 <212> PRT <213> Homo sapiens <400> 899 Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro 10 Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val 25 Thr Val Gly Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys 70 · His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val 85 90 Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe 105 His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe 115 Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val 150 Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro 165 170 Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Arg Lys Glu Lys Thr

185

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro

200

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly

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		Arg	Gly			Pro	Trp	Gly			Glu	Ile	Leu		
. 1				5					10	٠.,				15	
Ile			Ser											Lvs	Gln
			20					25					30	•	
Tla	. :	. ·	G				-					7			
iie	АТА	. Lys 35	Cys	vai	ser	Ser	Pro 40	His	Phe	Gln	Val	Ala 45	Glu	Arg	Ala
				-			40	-				4.7	•		
Leu			Trp	Asn	Àsn	Glu	Tyr	Ile	Met	Ser	Leu	Ile	Glu	Glu	Asn
	50					55					60				
Ser	Asn	Val	Ile	Leu	Pro	I le	Met	Phe	Ser	Ser	T.e.u	Тух	Ara	Tle	Sor
65					70			1110	501	75	Deu	171	ALG	116	80
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Lys	Glu	His	Trp		Pro	Ala	Ile	Val		Leu	Val	Tyr	Asn		Leu
				85					90					95	
Lys	Ala	Phe	Met	Glu	Met	Asn	Ser	Thr	Met	Phe	Asp	Glu	Leu	Thr	Ala
		: -	100					105					110		
Thr	Tree	Two	Sor	200	2	C1-	B	G1	T	T	•	6 3	-		_
1111	TYL		Ser		AIG	GIII	120	GIU	rys	ràs	Lys	125	rys	GIu	Arg
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Glu			Trp						Leu	Glu		Lys	Arg	Gly	Leu
	130					135	. ·	• •			14.0				٠. ٠
Arg	Arg	Asp	Gly	Ile	Ile	Pro	Thr						•		
145	_	-	-		150	• :-		-							•
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<210						-									
<211															
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<213	>. HC	omo s	apie	ns							•				
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			Glu	Ile	Ser	Gly	Arg	Leu	Ala						Ser
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Gly	Tyr	Pro	Ala 20		Leu	Gly	Ala	Arg 25		Ala	Ser	Phe	Tyr 30		Arq
Ala	Gly	Arg 35	Val	Lys	Cys	Leu	Gly 40		Pro	Glu	Arg	Glu 45	_	Ser	Va]
Ser	Ile 50		Gly	Ala	Val	Ser 55		Pro	Gly	Gly	Asp 60		Ser	Asp	Pro
Val 65	Thr	Ser	Ala	Thr	Leu 70	Gly	Ile	Val	Gln	Val 75		Trp	Gly	Leu	Asp 80
Lys	Lys	Leu	Ala	Gln 85	Arg	Lys	His	Phe	Pro 90	Ser	Val	Asn	Trp	Leu 95	Il∈
Ser	Туr	Ser	Lys 100	Tyr	Met	Arg	Ala	Leu 105	Asp	Glu	Tyr	Туr	Asp 110	Lys	His
Phe	Thr	Glu 115	Phe	Val	Pro	Leu	Arg 120	Thr	Lys	Ala	Lys	Glu 125	Ile	Leu	Gln
Glu	Glu 130	Glu	Asp	Leu	Ala	Glu 135	Ile	Val	Gln	Leu	Val 140	Gly	Lys	Ala	Ser
Leu 145	Ala	Glu	Thr	Asp	Lys 150	Ile	Thr	Leu	Glu	Val 155	Ala	Lys	Leu	Ile	Lys 160
Asp	Asp	Phe	Leu	Gln 165	Gln	Asn	Gly	Tyr	Thr 170	Pro	Tyr	Asp	Arg	Phe 175	Cys
Pro	Phe	Tyr	Lys 180	Thr	Val	Gly	Met	Leu 185	Ser	Asn	Met	Ile	Ala 190	Phe	Tyr
Asp	Met	Ala 195	Arg	Arg	Val	Phe	Glu 200	Thr	Thr	Ala	Gln	Ser 205	Asp	Asn	Lys
Ile	Thr 210	Trp	Ser	Ile	Ile	Arg 215		His	Met	Gly	Asp 220	Ile	Leu	Tyr	Lys
Leu 225	Ser	Ser	Met	Lys	Phe 230	Lys	Asp	Pro	Leu	Lys 235	Asp	Gly	Glu	Ala	Lys 240
Ile	Lys	Ser	Asp	Tyr 245	Ala	Gln	Leu	Leu	Glu 250	Asp	Met	Gln	Asn	Ala 255	Phe
Arg	Ser	Leu	Glu 260	Asp											

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<21	3> H	omo	sapi	ens					٠.						
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Phe	Pro	Glv	Ara	Pro	Thr	Ara	Pro	Ara	Glv	Tle	Ser	Val	Ser	Gly	Gly
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Glu	Ala	Val	Cvs	Pro	Val	Gln	Trn	Ara	T11	Ara.	Tve	T Au	81 5	Ala	71 ~
			20		• • • •						Lys.	Leu			MIG
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Yaa	Glv	Luc	Glw	Gla	Glu	W-1	C1		C 0 ==	*** 1	m h	m		Arg	-
nuu		35		-										Arg	Leu
	•	" "			-		40				•	45	•		
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GIU				гуs									Leu	Val	Ile
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	GIY	Arg		TYT		val		Arg						Pro	_
65					70		•	•		75	•				80
-1				_	_					_					
GLÄ	GLu	GIu	Val											Glu	Ser
	-			85				٠.	90	• ;				95	
			_						0						
Phe	Glu	Asp			His	Ser	Ser	Asp	Ala	Arg	Glu	Met	Leu	Lys	Gln
			100					105					110		
		•													
Tyr	Tyr		Gly	Asp	Ile	His	Pro	Ser	Asp	Leu	Lys	Pro	Glu	Ser	Gly
		115					120					125			
Ser	Lys	Asp	Pro	Ser	Lys	Asn	Asp	Thr	Cys	Lys	Ser	Cys	Trp	Ala	Tyr
	1.30					135					140				
Trp	Ile	Leu	Pro	Ile	Ile	Gly	Ala	Val	Leu	Leu	Gly	Phe	Leu	Tyr	Arg
145					150					155					160
Tyr	Tyr.	Thr	Ser	Glu	Ser	Lys	Ser	Ser							
				165											
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<213> Homo sapiens

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Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
             20
                                 25
Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
                             40
                                                  45
Val Val Leu Trp Ser
     50
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Pro Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn
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		35			Gly		/ Arg		y Ala	a Ile	e Gli		_	L Thi	c Glr
	Gln 50		s Ser						Ile				r Thi	Ile	∋ Ala
Arg 65	Asn	Trp	Ala	Asp	Ala 70	Gln	Thr	Glr	ı Ile	Glr - 75	Asr	ıle	e Ala	a Ala	s Ser 80
Phe	Asp	Gln													Tyr
			100		: * *	-		_ 105	,	: ~:	. ; .	<i>3</i>	.: 110)-y - '	Arg
*		115	-	•	-		120				•	125	ie jes L		Asp
	130			- •		135				-	140		. 1	::	Phe
145					150				ī	155			2 111		Ser 160
				165				:	. 170			. • .		175	Leu
		-	180	-	-			185					190		Phe
		195					200					205			Ala
	210					215					220				His
225	٠,			٠	230					235			-		Pro 240
				245		. :			250		٠		* :::	255	Ala
			260				٠.	265	-				270		Thr Pro
		275					280			×		285			Pro
							- y -			-x		314	OCI	O T A	MIG

290 295 300 Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu 305 310 Lys Lys Leu Ala Val Ser Ser Ala Ala 325 <210> 905 <211> 264 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (48) <223> Xaa equals any of the naturally occurring L-amino acids <400> 905 Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe 5 Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa 40 Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg 50 55 Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu `85 90 Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp

Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile 115 120 125

Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala

Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly

155

150

```
Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
                                170
                                                  175
His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
                             185 . .
Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
                        200
Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
    210
                   215
Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
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                                    235
Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Asp Tyr
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Leu Lys Lys Pro Gly Gly Gly
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Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
- 25 m - 20 m m 30 m 21 m
Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser
```

35 40 Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro 55 Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Pro Pro Ser Ala Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln 90 Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln 130 135 Pro Ala Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu 150 155 Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn 170 Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala 180 <210> 907 <211> 638 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (43) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

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	1> 5										*				
		(427)													
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Tyr	Val	Gln	Gly	Ty-r	Ser	Leu	Ser	Gln	Ala	Asp	Val	Ast	Ala	Phe	Arā
1				5					10		. ;	•		15	
Gln	Leu	Ser	Ala	Pro	Pro	Ala	Asp	Pro	Gln	Leu	Phe	His	Val	Άla	Ara
			20					25					30		•••
											,				
Tro	Phe	Ara	His	Ile	Glu	Ala	Len	Leu	ĠĨŸ	Yaa	Pro	Circ	Gly	Lve	CTO
•		35					40		- -,			45		בעם	GIY
												4.5			•
Gln	Pro	Cvs	Xaa	Leu	Pro	Ser	Xàa	Glin	Ara	Pro	Δla	Cve	Ala	ΔΙΞ	Pro
	50					55		· · · · ·	9	110	60	Cys	ATG	nia	FLO
Val	Val	Pro	Ser	Cvs	Trp	Asp	Pro	Хаа	Cvs	Ará	T.ein	His	Leu	ጥህተ	Ach
65				-1-	70					75	Deu		пеа	TYL	80
-					, 0					, ,					80
Ser	Leu	Thr	Ara	Asn	Lvs	Glu	Val	Phe	Tle	Pro	Gln	Aco	Glý	T 1/2	Truck
				85	-1-				90	110	GIN	vab	GLY	95	Lys
									,,,					93	
Val	Thr	Trp	Tvr	Cvs	Cvs	Glv	Pro	Thr	Val	Tvr	Agn	Δla	Ser	Hie	Mot
		•	100		- 2 -	1		105		-1-			110		
													110	:	
Gly	His	Ala	Arq	Ser	Tyr	Ile	Ser	Phe	Asp	Île	Leu	Ara	Arg	Val	T.em
_		115	-		•		120					125			
Lys	Asp	Tyr	Phe	Lys	Phe	Asp	Val	Phe	Tvr	Cvs	Met	Asn	Ile	Thr	Asp
_	130	-		•	-	135			- 4 -	- 2 -	140				
Ile	Asp	Asp	Lys	Ile	Ile	Lys	Arq	Ala	Àrq	Gl'n	Asn	His	Leu	Phe	Glu
145	_	_	-		150	-	_			155	-				160
Gln	Tyr	Arg	Glu	Lys	Arg	Pro	Glu	Àlà	Àla	Gln	Leu	Leu	Glu	Aśp	Val
	_	-		165	•				170					175	
Gln	Ala	Ala	Leu	Lvs	Pro	Phe	Ser	Val	Lvs	Leu	Asn	Glu	Thr	Thr	Asò
			180	-			•	185	-1-				190		
Pro	Asp	Lys	Lys	Gl'n	Met	Leu	Glu	Arq	Ìle	Ġln	His	Ala	Val	Gln	Leu
		195	-					3				205			
Ala	Thr	Glu	Pro	Leu	Glu	Lys	Ala	Val	Gln	Ser	Arg	Leu	Thr	Gly	Glu
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	210)				215	5				220)			
Glu 225		. Asr	n Ser	Cys	230		ı Val	Leu	ı Lev	235		a Ala	a Lys	s Asp	24
Leu	ser	Asp	Trp	245		Ser	Thr	Lèu	Gly 250		. Asp	Val	l Thi	255	
Ser	: Ile	Ph∈	e Ser 260		Leu	Pro	Lys	265		Glu	Gly	' Asp	270		Arq
Asp	Met	Glu 275	Ala	Leu	Asn	Val	Leu 280		Pro	Asp	Val	. Leu 285		Arg	Va]
Ser	Glu 290		Val	Pro	Glu	Ile 295		Asn	Phe	· Val	Gln 300		Ile	· Val	Asp
Asn 305		Tyr	Gly	Tyr	Val 310	Ser	Asn	Gly	Ser	Val 315		Phe	Asp	Thr	Ala 320
Lys	Phe	Ala	Ser	Ser 325		Lys	His	Ser	Туг 330		Lys	Leu	Val	Pro 335	Glu
Ala	Val	Gly	Asp 340	Gln	Lys	Ala	Leu	Gln 345	Glu	-Gly	Glu	Gly	Asp 350		Ser
Île	Ser	Ala 355	Asp	Arg	Leu	Ser	Glu 360	Lys	Arg	Ser	Pro	Asn 365	Asp	Phe	Ala
Leu	Trp 370	Lys	Ala	Ser	Lys	Pro 375	Gly	Glu	Pro	Ser	Trp 380	Pro	Cys	Pro	Trp
Gly 385	Lys	Gly	Arg	Pro	Gly 390	Trp	His	Ile	Glu	Cys 395	Ser	Ala	Met	Ala	Gly 400
Thr	Leu	Leu	Gly	Ala 405	Ser	Met	Asp	Ile	His 410	Gly	Gly	Gly	Phe	Asp 415	Leu
Arg	Phe	Pro	His 420	His	Asp	Asn	Glu	Leu 425	Ala	Xaa	Ser	Glu	Ala 430	Tyr	Phe
Glu	Asn	Asp 435	Cys	Trp	Val	Arg	Tyr 440	Phe	Leu	His	Thr	Gly 445	His	Leu	Thr
Ile	Ala 450	Gly	Cys	Lys	Met	Ser 455	Lys	Ser	Leu	Lys	Asn 460	Phe	Ile	Thr	Ile
465			Leu		470					475					480
Leu	Met	His	Ser	Trp	Lys	Asp	Thr	Leu	Asp	Tyr	Ser	Ser	Asn	Thr	Met

				485					490	•				495	5
Glu	Ser	Ala	Leu 500		- Туг	Glu	Lys	Phe 505		Asn	Glu	Phe	Phe 510		ı Ası
Val	Lys	Asp 515		Leu	Arg	Ala	Pro 520		Asp	Ile	Thr	Gly 525		Phe	Glu
Lys	Trp	Gly	Glu	Glu	Glu	Ala 535	Glu	Leu	Asn	Lys	Asn 540		туг	Asp	Lys
Lys 545		Ala	Ile	His	Lys 550	Ala	Leu	Cys	Asp	Asn 555	Val	Asp	Thr	Arg	Thr 560
Val	Met	Glu	Glu	Met 565	Arg	Ala	Leu	Val	Ser 570		Cys	Asn	Leu	Tyr 575	
Ala	Ala	Arg	Lys 580	Ala	Val	Arg	Lys	Arg 585	Pro	Asn	Gln	Ala	Leu 590	Leu	Glu
Asn	Ile	Ala 595	Leu :	Tyr	Leu	Thr	600	Met		Lys	Ile	Phe 605	Gly	Ala	Val
	Glu 610	Asp	Ser	Ser	Leu	Gly 615	Phe	Pro	Val	Gly	Gly 620	Pro	Gly	Thr	Ser
Leu 625		Leu		Ala								Val	Leu		
	• :														
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	> 90		T a	B	·c	المتعددة	.	-0	a						
1	uts	Pro-	ren	5	ser	Arg.	Leu	Pro	10	Ala	Thr	GIÀ.	Val	15	His
Ala	Leu	Ala	20		Phe		Arg	His 25	Leu	Gly	Ser	Ala	Phe 30	Pro	Ala
31n		Ala 35	Arg	Arg		Thr	40	Thr		Pro	Ala	Thr 45	Glu	Gln	Glu
Leu	Pro 50	Gln	Pro	Gln		Glu 55		Gly	Ser	Gly	Thr 60	Glu	Ser	Asp	Ser
Asp 65	Glu	Ser	Val	Pro				Glů'	Gln	Asp 75	Ser	Thr	Gln:	Ala	Thr 80

Thr Gln Gln Ala Gln Leu Ala Ala Ala Glu Ile Asp Glu Glu Pro 90 Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala 100 105 110 Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr 120 125 Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val 140 135 Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys 150 155 Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Glu Lys Phe 165 170 Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr 180 185 190 Pro Thr Val Glu Glu Glu Glu Glu Glu Val Asp Glu Thr Gly 195 200 Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser 220 Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val 225 230 235

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Pro	T OU	Mot		N	B ===	21.	*** 3			1		-1 1.			
PIO	Leu	rie C	20	Arg	AIG	Ala	vaı	ser 25		vai.	Ala	GIY	Ser 30		va.
			20					23					30		
Gly	Ala	Glu	Pro	Glv	Leu	Ara	Leu	Leu	Ala	Val	Gln	Ara	Xaa	Pro	. Va
-		35		2		5	40					45			• • • •
Glu	Gln	Arg	Ser	Ala	Gly	Leu	Ala	Arg	Pro	Gln	Thr	Leu	Ser	Ala	Ala
	50					55					60				
	Thr	Ala	Lys	Pro		Leu	Glu	Glu	Arg	Ala	Glu	Gly	Thr	Val	Asr
65					70					75					80
Gl.,	G1		.	a 1					2	• ·					
GIU	GIĀ	Arg	PIO		Ser	Asp	Ala	Ala		His	Thr	GIA	Pro	_	Phe
				85					90					95	
Asp	Ile	Asp	Met	Met	۷a l	Ser	Len	Ĺeń	Ára	Gln	Glu	Ásn	Ala	Àra	Δen
			100					105	•••	J			110	9	N3F
Ile	Cys	Val	Ile	Gl'n	Val	Pro	Pro	Glu	Met	Arg	Tyr	Thr	Asp	Tyr	Phe
		115					120		*			125	-	_	
Val		Val	Ser	Gly	Thr		Thr	Arg	His	Leu	His	Ala	Met	Ala	Phe
	130					135					140				
ښو.وس	1701	*** 1	*			T	111 -	T = .:	T	G	-	3		5	.
145	val	val	Lys	met	150	гуѕ	nıs	ren	rys	155	гÀг	Arg	Xaa	Pro	Ser 160
					130					133					100
Cys					٠					-					
											•				
	•										•				
	•	*				* *									
)> 91							•							
	L> 48					-	•								
	?> PF		apie												
			apre				;								
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1				5					10	: -		*		15	1
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Ala	Val	Leu	Gly	Val	Phe	Ser	Leu	Ala	Ser	Trp	Val	Pro	Cys	Leu	Cys
			20		-			25					30		

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn

45

40

Ser	Thr 50		Thr	Arg	, Leu	11e		Ala	a Phe	: Ile	Let 60		ı Let	ı Se	r Th
Val 65		. Ser	Tyr	lle	Met 70		Arg	, Lys	Glu	Met -75		Thi	туг	Lei	Ly:
Lys	Ile	Pro	Gly	Phe 85		Glu	Gly	Gly	Phe		Ile	His	Glu	Ala 95	_
Ile	Asn	Ala	Asp 100		Asp	Cys	Asp	Val 105		Val	Gly	Туг	Lys 110		va]
туr	Arg	Ile 115	Ser	Phe	Ala	Met	Ala 120		Phe	Phe	Phe	Val 125		Ser	Leu
Leu	Met 130	Phe	Lys	Val	Lys	Thr 135	Ser	Lys	Asp	Leu	Arg 140		Ala	Val	His
Asn 145	Gly	Phe	Trp	Phe	Phe 150	Lys	Ile	Ala	Ala	Leu 155	Ile	Gly	Ile	Met	Val 160
Glý	Ser	Phe	Tyr	Ile 165	Pro	Gly	Gly	Tyr	Phe 170	Ser	Ser	Val	Trp	Phe 175	
Val	Gly	Met	Ile 180	Gly	Ala	Ala		Phe 185	Ile	Leu	Ile	Gln	Leu 190	Val	Leu
Leu	Val	Asp 195	Phe	Ala	His	Ser	Trp 200	Asn	Glu	Ser	Trp	Val 205	Asn	Arg	Met
Glu	Glu 210	Gly	Asn	Pro	Arg	Leu 215	Trp	Tyr	Ala	Ala	Leu 220	Leu	Ser	Phe	Thr
Ser 225	Ala	Phe	Tyr	Ile	Leu 230	Ser	Ile	Ile	Cys	Val 235	Gly	Leu	Leu	Tyr	Thr 240
туг	Tyr	Thr	Lys	Pro 245	Asp	Gly	Cys	Thr	Glu 250	Asn	Lys	Phe	Phe	Ile 255	Ser
Ile	Asn	Leu	11e 260	Leu	Cys	Val	Val	Ala 265	Ser	Ile	Ile	Ser	Ile 270	His	Pro
Lys	Ile	Gln 275	Glu	His	Gln	Pro	Arg 280	Ser	Gly	Leu	Leu	Gln 285	Ser	Ser	Leu
	Thr 290	Leu	Tyr	Thr		Tyr 295	Leu	Thr	Trp	Ser	Ala 300	Met	Ser	Asn	Glu
Pro . 305	Asp	Arg	Ser		Asn 310	Pro	Asn	Leu		Ser 315	Phe	Ile	Thr		Ile 320

Thr	Ala	Pro	Thr	Leu 325	Ala	Pro	Gly	Asn	330		Ala	Va]	. Val	l Pro 335	
Pro	Thr	Pro	Pro 340	Ser	Lys	Ser	Gly	Ser 345		Leu	. Asp	Ser	Asp 350		Phe
Ile	Gly	Leu 355	Phe	Val	Phe	Val	Leu 360					365		Ile	Arg
Thr	Ser 370	Thr	Asn	Ser	Gln	375		Lys	Leu	Thr	Leu 380	Ser	Gly	Ser	Asp
Ser 385	Val	Ile	Leu	Gly	Asp 390			Thr	Ser	Gly 395			Asp	Glu	Glu 400
Asp	Gly	Gln	Pro	Arg 405	Arg	Ala		Asp					Gly	Val 415	
Tyr	Ser	Tyr	Ser 420	Leu	Phe		: Leu							:	
Ile	Met	Met 435		Leu	Thr	Ser	Trp	٠	Ser		Asp	Ala		i.e.: Phe	
Ser	Met 450		Ser	Lys	Trp			Val	Trp	Val		11e	Ser	Ser	Ser
Trp	-	Cys	Leu	Leu	Leu	455 Tyr	Val	Trp	Thr	 Leu	460 Val	 Ala	LFL Pro	Leu	: Val
465 Leu	Thr	Ser	Arg	Asp	470 Phe	Ser	• • •	• ::	7.3	475			- ·	٠.	480
			. 7	485	•;	1	. ":		. :: . :			·	ar	-	
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<212 <213		T mos	apie	ńs -	. •	÷		.*	-				•		
220: 221: 222:	> sı	TE 9)													
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			Val .	Arg :	His .	Arg	Gly	Asn	Lys 10	Val	Val	Lys	Lys	Lys 15	Val
ieu - 1	Val .	Arg -	Cys. 1	Arg	His 1	Phe	Ile	Cys 25	Pro	His	Ser	Leu	Arg 30	Leu	Ser

Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr 35 40 45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile 50 55 60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala 65 70 75 80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg 85 90 95

Gly Arg

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<211> 206

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<213> Homo sapiens

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Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile 20 25 30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met 35 40 45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn 50 55 60

Phe Pro Thr Glu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala 65 70 75 80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu 85 90 95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys 100 105 110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly 115 120 125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp 130 135 140

```
Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
                                                                                                                                        155
   Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
 Here is a contract of 165 metal and the 170 metal and 175 
   Glu Ser Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
    180
   Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
     200 + 195 1 T 1 1 1 1 1 1 1 2 200 + 7 1 1 1 1 1 2 205 1 2 2 1 1 1 1 1 1 1
 let erre i verskrivet hadde er e bet de ledge e alleggede forske ekspelle
  <210> 913
  <211> 91
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  <400> 913
 Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
  Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
  20
                                                                                                                    25
 Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
45 mm
 Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
   Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
65 70 75 80
Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
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  The second of th
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Met Ala Ser Glu Phe Lys Lys Leu Phe Trp Arg Ala Val Val Ala
Glu Phe Leu Ala Thr Thr Leu Phe Val Phe Ile Ser Ile Gly Ser Ala
                             40
Leu Gly Phe Lys Tyr Pro Val Gly Asn Asn Gln Thr Ala Val Gln Asp
Asn Val Lys Val Ser Leu Ala Phe Gly Leu Ser Ile Ala Thr Leu Ala
Gln Ser Val Gly His Ile Ser Gly Ala His Leu Asn Pro Ala Val Thr
Leu Gly Leu Leu Ser Cys Gln Ile Ser Ile Phe Arg Ala Leu Met
           100
                                105
Tyr Ile Ile Ala Gln Cys Val Gly Ala Ile Val Ala Thr Ala Ile Leu
                            120
                                               125
Ser Gly Ile Xaa Ser Ser Leu Thr Gly Asn Ser Leu Gly Arg Asn Asp
   130
Leu Ala Xaa Gly Val Asn Phe Gly Pro Xaa Pro Gly His Arg Asp His
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                                       155
Arg Asp Pro Pro Ala Gly Ala Met Arg Ala Gly Tyr Tyr Arg Pro Glu
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                                   170
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Ala Pro

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			His	Gly 5		Gly	Leu	Leu	Arg 10		Phe	Tyr	Ser	Arg 15	Arg	
Ile	Asp	Ile	Thr 20	Leu	Ser	Ser	Val	Lys 25	Cys	Phe	His	Lys	Leu 30	Ala	Ser	
Ala	Tyr	Gly 35	Ala	Arg	Gln	Leu	Gln 40	Gly	Tyr	Cys	Ala	Ser . 45	Leu	Phe	Ala	
Ile	Leu 50	Leu	Pro	Gln	Asp	Pro 55	Ser	Phe	Gln	Met	Pro 60	Leu	Asp	Leu	Tyr	
Ala 65	Туr	Ala	Val	Ala	Thr 70	Gly	Asp	Ala	Leu	Leu 75	Glu	Lys	Leu	Сув	Leu 80	
Gln	Phe	Leu	Alạ	Trp 85	Asn	Phe	Glu	Ala	Leu 90	Thr	Gln	Ala	Glu	Ala 95	Trp	
Pro	Ser	Val	Pro 100	Thr	Asp	Leu	Leu	Gln 105	Leu	Leu	Leu	Pro	Arg 110	Ser	Asp	
Leu	Ala	Val 115	Pro	Ser	Glu	Leu	Ala 120	Leu	Leu	Lys	Ala	Val 125	Asp	Thr	Trp	
Ser	Trp 130	Gly	Glu	Arg	Ala	Ser 135	His	Glu	Glu	Val	Glu 140	Gly	Leu	Val	Glu	
Lys 145	Ile	Arg	Phe	Pro	Met 150	Met	Leu	Pro	Glu	Glu 155	Leu	Phe	Glu	Leu	Gln 160	
Phe	Asn	Leu	Ser	Leu 165	Tyr	Trp	Ser	His	Glu 170	Ala	Leu _.	Phe	Gln	Lys 175	Lys	
Thr	Leu	Gln	Ala 180	Leu	Glu	Phe	His	Thr 185	Val	Pro	Phe	Gln	Leu 190	Leu	Ala	
Arg	Tyr	Lys 195	Gly	Leu	Asn	Leu	Thr 200	Glu	Asp	Thr	Tyr	Lys 205	Pro	Arg	Ile	
Tyr	Thr 210	Ser	Pro	Thr	Trp	Ser 215	Ala	Phe	Val	Thr	Asp 220	Ser	Ser	Trp	Ser	
A 1 -	A	*	C	C1 -	T	17-1	m	C1-	C	B	N	a1		-		

. 225

240

235

Lys	туг	Se:	c Ser	245	Tyr	Phe	e Glr	n Ala	a Pro 250		r Asp	э Туг	r Ar	255	_
Pro	Туг	Gli	n Ser 260		e Gln	Thr	Pro	Glr 265		s Pro	Ser	Phe	270		e Gli
Asp	Lys	275		. Ser	Trp	Ser	280		l Туг	Leu	ı Pro	285		e Glr	n Sei
Cys	Trp 290		туг	Gly	Phe	Ser 295		Ser	Ser	Asp	300		Pro	Val	. Let
Gly 305		Thr	Lys	Ser	Gly 310	Gly	Ser	Asp	Arg	315		: Ala	Tyr	Glu	320
Lys	Ala	Leu	Met	Leu 325	Cys	Glu	Gly	Leu	330		. Ala	Asp	Val	Thr 335	_
Phe	Glu	Gly	Trp 340		Ala	Ala	Ile	Pro 345		Ala	Leu	Asp	Thr		Ser
Ser	Lys	Xaa 355		Ser	Ser	Phe	Pro 360	Cys	Pro	Ala	Gly	Thr 365	Ser	Thr	Ala
Ser	Ala 370	Arg	Ser	Ser	Ala	Pro 375	Ser	Thr							
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Arg 1	Val	Gln	Arg	Asp 5	Thr	Cys	Leu	Pro	Pro 10	Met	Ser	Leu	Ser	Phe 15	His
Leu	Pro	Ser	Arg 20	Arg	Met	Lys	Asn	Pro 25	Ser	Ile	Val	Gly	Val 30	Leu	Cys
Ťhr	Asp	Ser 35	Gln	Gly	Leu	Asn	Leu 40	Gly	Cys	Arg	Gly	Thr 45	Leu	Ser	Asp
Glu	His 50	Ala	Gly	Val	Ile	Ser 55	Val	Leu	Ala	Gln	Gln 60	Ala	Ala	Lys	Leu
Thr 65	Ser	Asp	Pro	Thr	Asp 70	Ile	Pro	Val	Val	Cys 75	Leu	Glu	Ser	Asp	Asn 80

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Lys Met Ala Ser
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Leu	Leu	Glu 35	Thr	Met	His	Leu	Thr 40	Gly	Ala	Asp	Xaa	Thr 45	Asn	Thr	Phe
Туr	Leu 50	Leu	Ser	Ser	Phe	Pro 55	Val	Glu	Leu	Glu	Ser 60	Pro	Gly	Leu	Xaa
Glu 65	Phe	Leu	Ala	Arg	Leu 70	Met	Glu	Gln	Cys	Ala 75	Ser	Leu	Glu	Glu	Leu 80
Arg	Leu	Ala	Phe	Arg 85	Pro	Xaa	Met	Asp	Pro 90	Arg	Gln	Leu	Ser	Met 95	Met
Leu	Met	Leu	Ala 100	Gln	Ser	Asn	Pro	Gln 105	Leu	Phe	Ala	Leu	Met 110	Gly	Thr
Arg	Ala	Gly 115	Ile	Ala	Arg	Glu	Leu 120	Glu	Arg	Val	Glu	Gln 125	Gln	Ser	Arg
Leu	Glu 130	Gln	Leu	Ser	Ala	Ala 135	Glu	Leu	Gln	Ser	Arg 140	Asn	Gln	Gly	His
Trp 145	Ala	Asp	Trp	Leu	Gln 150	Ala	Tyr	Arg	Ala	Arg 155	Leu	Asp	Lys	Asp	Leu 160
Glu	Gly	Ala	Gly	Asp 165	Ala	Ala	Ala	Trp	Gln 170	Ala	Xaa	Ala	Arg	Ala 175	Arg
Asp	Ala	Arg	Gln 180	Gln	Pro	Glu	Val	Arg 185	Ala	Glu	Glu	Leu	His 190	Ser	Arg
Arg	Met	Pro 195	Phe	Glu	Val	Ala	Glu 200	Arg	Gly	Asp	Phe	Ser 205	Glu	Val	Arg
Arg	Val 210	Leu	Lys	Leu	Phe	Glu 215	Thr	Leu	Tyr	His	Cys 220	Glu	Ala	Gly	Ala
Ala 225	Thr	Arg	Arg	Pro	Arg 230	Pro	Arg	Glu	Ala	Asp 235	Gly	Gly	Gly	Arg	Xaa 240
Gly	Xaa	Phe	Leu	Thr											

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<211> 44

<212> PRT

<213> Homo sapiens

245

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Phe	Leu	Cys	Gly 20		Lys	Thr	Lys	Pro 25		· Val	Ser	Leu	Cys 30		Gln
Arg		Lys 35		Glu	Glu	Thr	Gln 40	Phe	Thr	His	Gly				
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	0> 9					_			_						
Pne	GIA	Thr	Arg	vaı	Thr	ser	GLY	Gly	Ser	Arg	Asp	Ala	Val	Pro	Gly
•			7.7 **	- 1.3				;	- 10					1.2	
Ala	Glu	Pro	Pro	Lvs	Met	Ala	Val	Cvs	Tle	Ala	Val	Tle	Δla	Lve	Glu
-			20	7	:			- 25					30	2,3	Giu
								:							
Asn	Tyr	Pro	Leų	Tyr	Ile	Arg	Ser	Thr	Pro	Thr	Glu	Asn	Glu	Leu	Lys
	11.1	35	· -	:		22.3	40		: 2	÷	-115	45	٠٠.	٠.	٠.
				_			. :					-			
Phe	His	Tyr	Met	Val	His	Thr	Ser	Leu	Asp	Val	Val	Asp	Glu	Lys	Ile
	50					. 55	• •	2 .	*** **		`60	-			
Ser	Ala	Met	Glv	T.vs	Ala	T.eu	Val	Asp	Gln	Ara	Glu	Ten	T17.	T OU	C1
65		-		_,_,_	70		VAI	nsp	GIII	75	- GIU	Leu	TYL	reu	8U GIÀ
					-										,
Leu	Leu	Tyr	Pro	Thr	Glu	Asp	Tyr	Lys	Val	Tyr	Gly	Tyr	Val	Thr	Asn
	-		÷	85	·:		-,	-	90			· .	٠.	95	
						*									
Ser	Lys	Val	Lys	Phe	Val	Met	Val	Val	Asp	Ser	Ser			Ala	Leu
		•	100		• • :	•		105			** 9		110		
Ara	Asn	Asn	Glu	Tle	Ara	Ser	Mat	Phe	Ara	T.ve	Len	ui e	N.c.n	ea-	m
												125	ASII	ser	_
												123			
Chr	Asp	Val	Met	Cys	Asn	Pro	Phe	Tyr	Asn	Pro	Gly	Asp	Arg	Ile	Gln
	130							. - .					_		7
	-										•				
er	Arg	Ala	Phe	Asp	Asn	Met	Val	Thr	Ser	Met	Met	Ile	Gln	Val	
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                           40
Arg Leu Met Ala Ser Ser Ser Leu Val Pro Asp Arg Leu Arg Leu
Pro Leu Cys Phe Leu Gly Val Phe Val Cys Tyr Phe Tyr Tyr Gly Ile
Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
                                   90
                85
Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
                           105
Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
                          120
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Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr

Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr

130

145					150)				155	,				160
Pro	Thr	Gln	Val	Leu 165	Gly	Lys	Ser	Cys	Lys 170	Pro	Ile	Pro		. Met -175	
Leu	Gly	Val	Thr 180	Leu	Leu	Lys 	Lys	Lys 185	Tyr	Pro	Leu	Ala	Lys 190	Tyr	Leu
Cys	Val	Leu 195	Leu	Ile	Val	Ala	Gly 200	Val	Ala	Leu	Phe	Met 205	Tyr	Lys	
Lys	Lys 210	Val	Val	Gly	Ile	Glu 215	Glu	His	Thr	Val	Gly 220	Tyr	Gly	Glu	Leu
Leu 225	Leu	Leu	Leu	Ser	Leu 230	•	Leu	• -	Gly	Leu 235	Thr	Gly	Val	Ser	Gln 240
Asp	His	Met	Arg	Ala 245	His	Tvr	Gln	Thr	Gly 250	Ser	Asn	His	Met	Met 255	Leu
Asn	Ile	Asn	Leu 260	· · · · · · · · · · · · · · · · · · ·	Ser	Thr	Leu	Leu 265	. ** • •	Gly	Met	Gly	Ile 270	Leu	Phe
Thr	Gly	Glu 275		Trp	Glu	Phe	Leu 280	Ser	Phe	Ala	Glu	Arg 285	Tyr	Pro	Ala
Ile	Ile 290	Tyr	Asn	Ile	Leu	Leu 295	Phe	Gly	Leu	Thr	Ser 300	Ala	Leu	Gly	Gln
Ser 305	Phe	Ile	Phe	Met	Thr 310	Val	Val	Tyr	Phe	Gly 315	Pro	Leu	Thr	Cys	Ser 320
Ile	Ile	Thr	Thr	Thr 325	Arg	Lys	Phe	Phe	Thr 330	Ile	Leu	Ala	Ser	Val 335	
Leu	Phe	Ala	Asn 340	Pro	Ile	Ser	Pro	Met 345	Gln	Trp	Val	Gly	Thr 350	Val	Leu
Val	Phe	Leu 355	Gly	Leu	Gly	Leu	Asp 360	Ala	Lys	Phe	Gly	Lys 365	Gly	Ala	Lys
Lys	Thr 370	Ser							. :				-		

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<213> Homo sapiens

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Pro	Leu	Ala	Lys 20		Trp	Leu	Ala	Ala 25		Trp	Asp	Lys	Lys 30		Th
Lys	Ala	His 35	Val	Phe	Glu	Cýs	Asn 40		Glu	Ser	Ser	Val		Ser	Ile
Ile	Ser 50	Pro	Lys	Val	Lys	Met 55		Leu	Arg	Thr	Ser 60		His	Leu	Le
Leu 65	Gly	Val	Val	Arg	Ile 70	Tyr	His	Arg	Lys	Ala 75		Туг	Leu	Leu	Ala 80
Asp	Cys	Asn	Glu	Ala 85	Phe	Ile	Lys	Ile	Lys 90		Ala	Phe	Arg	Pro 95	-
Val	Val	Asp	Leu 100	Pro	Glu	Glu	Asn	Arg 105	Glu	Ala	Ala	Tyr	Asn 110	Ala	Ile
Thr	Leu	Pro 115	Glu	Glu	Phe	His	Asp 120	Phe	Asp	Gln	Pro	Leu 125	Pro	Asp	Leu
Asp	Asp 130	Ile	Asp	Val	Ala	Gln 135	Gln	Phe	Ser	Leu	Asn 140	Gln	Ser	Arg	Val
Glu 145	Glu	Ile	Thr	Met	Arg 150	Glu	Glu	Val	Gly	Asn 155	Ile	Ser	Ile	Leu	Gln 160
Glu	Asn	Asp	Phe	Gly 165	Asp	Phe	Gly	Met	Asp 170	Asp	Arg	Glu	Ile	Met 175	Arg
Glu	Gly	Ser	Ala 180	Phe	Glu	Asp	Asp	Asp 185	Met	Leu	Val	Ser	Thr 190	Thr	Thr
Ser	Asn	Leu 195	Leu	Leu	Glu	Ser	Glu 200	Gln	Ser	Thr	Ser	Asn 205	Leu	Asn	Glu
Lys	Ile 210	Asn	His	Leu	Glu	Туг 215	Glu	Asp	Gln	Tyr	Lys 220	Asp	Asp	Asn	Phe
31y 225	Glu	Gly	Asn	Asp	Gly 230	Gly	Ile	Leu	Asp	Asp 235	Lys	Leu	Ile	Ser	Asn 240
Asn	Asp	Gly	Gly	Ile 245	Phe	Asp	Asp	Pro	Pro 250	Ala	Leu	Ser	Glu	Ala 255	Gly
/al	Met	Leu	Pro	Glu	Gln	Pro	Ala	His		Asp	Met	Asp	Glu	Asp	Asp

_															
Asn	Val	Ser 275		. Gly	Gly	Pro	Asp 280	Ser	Pro	Asp	Ser	Val 285		Pro	Val
Glu			Pro	Thr	Met	Thr 295		Gln	Thr	Thr	Leu 300	Val	Pro	Asn	Glu
Glu 305		Ala	Phe	Ala	Leu 310	Glu	Pro	Ile	Asp	Ile 315		Val	Lys	Glu	Thr 320
Lys	- Ala	Lys	Arg	Lys 325	Arg	Lys	Leu	Ile	≟Val 330	Asp	Ser	Val	Lys	G1u 335	Leu
Asp	Ser	Lys	Thr 340		Arg	Ala	Gln	Leu 345	Ser	Asp	Tyr	Ser	Asp 350	Ile	Val
Thr	Thr	Leu 355	Asp	Leu	Ala	Pro	Pro 360	Pro	Arg	Àsn	lle :	viin •3	Jing.		
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<210	0> 92	23													
					45₽.							•			
	2> PF				- 11					، بر د الهاجة				•	
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	3> Ho														
					'> '	* . #			N						
)> 92			_											
val	ALA	Val	Ile	Trp	Ala	Tyr	Trp	Leu	Gly	Leu	Lys	Val	Arg	Arg	Glu
1				** - 5 *	* *3	: <u>.</u>		· · . ·	10	n:	- 17	· · ·		15	112
Tyr															
	Arg	Lys	Phe	Phe	Arg	Ala	Asn	Ala	Gly	Lys	Lys	Ile	Tyr	Glu	Phe
				Phe	Arg										
Thr		î.	20	lin .) is . ;	هي. 	25				: -	30		-
Thr		Gln	20	lin .	Val	Gln	Lys	25 Tyr	Phe	Leu	Glu	Met	30 Lys		Lys
	Leu	Gln 35	20 Arg	Ile	Val	Gln	Lys 40	25 Tyr	Phe	Leu	Glu	Met 45	30	Asn	Lys
	Leu	Gln 35	20 Arg	Ile	Val	Gln Ile	Lys 40 Asp	25 Tyr Lys	Phe 	Leu	Glu Pro	Met 45	30	Asn	Lys
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Met	Leu Pro 50	Gln 35 Ser	20 Arg Leu Asp	Ile Ser	Val Pro	Gln Ile 55 His	Lys 40 Asp Lys	25 Tyr Lys	Phe Asn	Leu	Glu Pro 60 Arg	Met 45 Ser	30 Lys Arg	Asn Pro	Lys Tyr
Met Leu 65	Leu Pro 50 Phe	Gln 35 Ser Leu	20 Arg Leu Asp	Ile Ser	Val Pro Thr 70	Gln Ile 55 His	Lys 40 Asp	25 Tyr Lys Glu	Phe Asn Leu	Leu Trp Lys	Glu Pro 60 Arg	Met 45 Ser Ile	30 Lys Arg	Asn Pro	Lys Tyr Leu 80
Met Leu 65 Trp	Leu Pro 50 Phe	Gln 35 Ser Leu Cys	20 Arg Leu Asp	Ile Ser Ser	Val Pro	Gln Ile 55 His	Lys 40 Asp Lys	25 Tyr Lys Glu	Phe Asn Leu	Leu Trp Lys 75	Glu Pro 60 Arg	Met 45 Ser Ile	30 Lys Arg	Asn Pro	Lys Tyr Leu 80 Leu
Met Leu 65 Trp	Leu Pro 50 Phe	Gln 35 Ser Leu Cys	20 Arg Leu Asp	Ile Ser Ser Lys 85	Val Pro Thr 70	Gln Ile 55 His	Lys 40 Asp Lys	25 Tyr Lys Glu	Phe Asn Leu Phe 90	Leu Trp Lys 75	Glu Pro 60 Arg	Met 45 Ser Ile Gln	30 Lys Arg Phe	Asn Pro His Lys 95	Lys Tyr Leu 80 Leu
Met Leu 65 Trp	Leu Pro 50 Phe	Gln 35 Ser Leu Cys	20 Arg Leu Asp	Ile Ser Ser Lys 85	Val Pro Thr 70 Tyr	Gln Ile 55 His Arg	Lys 40 Asp Lys	25 Tyr Lys Glu Gln Ser	Phe Asn Leu Phe 90	Leu Trp Lys 75 Thr	Glu Pro 60 Arg Asp	Met 45 Ser Ile Gln	30 Lys Arg Phe Gln	Asn Pro His Lys 95	Lys Tyr Leu 80 Leu
Met Leu 65 Trp	Leu Pro 50 Phe	Gln 35 Ser Leu Cys	20 Arg Leu Asp Lys	Ile Ser Ser Lys 85	Val Pro Thr 70	Gln Ile 55 His Arg	Lys 40 Asp Lys	25 Tyr Lys Glu Gln Ser	Phe Asn Leu Phe 90	Leu Trp Lys 75 Thr	Glu Pro 60 Arg Asp	Met 45 Ser Ile Gln	30 Lys Arg Phe Gln	Asn Pro His Lys 95	Lys Tyr Leu 80 Leu
Met Leu 65 Trp	Leu Pro 50 Phe Arg Tyr	Gln 35 Ser Leu Cys Glu	20 Arg Leu Asp Lys Glu 100 Pro	Ile Ser Ser Lys 85 Lys	Val Pro Thr 70 Tyr	Gln Ile 55 His Arg	Lys 40 Asp Lys	25 Tyr Lys Glu Gln Ser 105	Phe Asn Leu Phe 90	Leu Trp Lys 75 Thr	Glu Pro 60 Arg Asp	Met 45 Ser Ile Gln Lys	30 Lys Arg Phe Gln Asp	Asn Pro His Lys 95 Lys	Lys Tyr Leu 80 Leu

Glu	Ile 130		Lys	Asn	Pro	Lys 135		Lys	. Lys	Leu	Lys 140		Ala	Ile	e Glu
Glu 145	Lys	Ile	Ile	Ile	Ala 150	Glu	Vaļ	Vaļ	Asņ	Lys 155			Arg	Ala	Asn 160
Gly	Lys	Ser	Thr	Ser 165		Ile	Phe	Leu	Ļeu 170		Asņ	Asn	Asn	Ļeu 175	Leu
Leu	Ala	Aşp		Lys		Gly	Gln	Ile 185			Gľy	Val	Pro 190		Val
Asp	Val		Lys	Val	Ser	Met	Ser 200	Ser		Asņ	Asp	Gl <u>y</u> 205	Phe	Phe	Ala
Val	His 210	Leu	Lys	Glu	Gļy	Ser 215			Ala	Şer	Lys 220		Asp	Phe	Leu
Phe 225		Ser	Asp	His	Leu 230	Ile	Glu	Met	Ala	Thr 235	Lys	Ļeu	Tyr		Thr. 240
Thr	Leu	Ser	Gln	Thr 245	Lys	Gln	ГÀŽ	Leu	Asn 250	Ile		Ile	Ser	_	Glu
Phe	Leu	Val	Gln 260	Phe	Arg	Gln	Asp	L <u>y</u> s 265	Val	Cys	Val	ГАŜ	Phe 270	Ile	Gln
Gly	Asņ	Gln 275	Lys	Asn	Gly	Ser	Val 280	Pro	LþĖ	Суя	Lys	Arg 285	Lys	Asn	Asn
Arg	Leu 290	Ļeu	Glu	Val	Ala	Val 295	Pro	Pr. and	<u>.</u> 78			-		· ·	• ,=
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His 1	Phe	Ser	Ile	Asn 5	Туг	Asn	Gln	Lys	Ser 10	Asp	Leu	Leu	Lys	Glu 15	Lys
Ser	Asp	Cys	Lys 20	Ser	Phe	Gln	Gly	Gln 25	Thr	Ala	Thr	Glu	Pro 30	Pro	Thr
Pro	Lys	Gln 35	Glu	Thr	Leu '	Val	Lys 40	Val	Gln	Glu	Ala	Arg 45	Arg	Phe	Ser
Pro	Thr	Lys	Val	Gl'n	Leu (Gly	Asn	Asp	Ala	Glu .	Arg	Met	Thr	Thr	Thr

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Cys Asn Ser Arg Lys Met Leu Ala Ser Arg Val Arg Val Thr Ser Glu
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Cys His Lys Ser Ser Leu Ser His Cys Leu Ile 85 90

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Val Thr Leu Ile Ser Val Val Gln Asn Gly Phe Phe Ala His Lys Val 35 40 45

Glu His Glu Ser Arg Thr Gln Asn Gly Arg Ser Phe Gln Arg Thr Gly
50 55 60

Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp 65 70 75 80

Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys 85 90 95

Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg 100 105 110

Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro 115 120 125

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Asp	Thr	Gln 35		Ala	. Glu	. Cys	Ala 40		Pro	Pro	.Val	Pro 45	Asp	·Pro	Lys
Asn	Gln 50		Ser	Gln	ser	Lys 55		Leu	Arg	Asp	Asp 60		_Ala	His	Leu
Gln 65		Asp	-Gln	Gly	Glu 70	Glu	.Glu	-Cys	Phe	His 75		_. Cys	Ser	Ala	Ser 80
Phe	Glu	Glu	Glu	Pro 85	Gly	Ala	Asp	Lys	Val 90		Asn	Lys	Ser	Asn 95	Glu
Asp		Asn	Ser 100	Ser	Glu	Leu	Asp	Glu 105	Glu	Tyr	Leu	Ile	Glu 110	Leu	Glu
Lys	Asn	Met		Asp	Glu	Glu	Lys 120		Lys	Arg	Arg	Glu 125	Glu	Ser	Thr
Arg	Leu 130		Glu	Glu		135	Glu	Gln	Phe	Lys	Lys 140	Gly	Asp	Tyr	Ile
Glu 145	Ala	Glu	Ser	Ser		Ser	Arg	Ala	Leu	Glu 155	Met	Cys	Pro	Ser	Cys 160
Phe	Gln	Lys		165			Leu		Ser 170	Asn	Arg	Ala	Ala	Ala 175	Arg
Met	Lys	Gln		Lys			Met		Ile	Asn	Asp	Cys	Ser 190	Lys	Ala
Ile	Gln	Leu 195	Asn	Pro	Ser		Ile 200	Arg	Ala	Ile	Leu	Arg 205	Arg	Ala	Glu
Leu	210		Lys	Thr		Lys 215	Leu	Asp	Glu	Ala	Leu 220			Tyr	
Ser 225	Ile		Glu	Lys	Asp 230		Ser	Ile	His	Gln 235	Ala	Arg	Glu	Ala	Cys 240
Met	Arg	Leu	Pro	Lys 245		Ile	Glu	Glu	Arg 250	Asn	Glu	Arg		Lys 255	Glu

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Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala 35 40 45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Glu His Trp 50 55 60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met 65 70 75 80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr 85 90 95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
100 105 110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe 115 120 125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His 130 135 140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val 145 150 155 160

Tyr	Gln	Tyr	Ser	Thr 165	Glu	Pro	Ile	Asn	Thr 170		His	Gly	Ile	His 175	Gln
Asn	Glu	Asp	Glu 180	Pro	Ile	Arg	Val.	Ser 185	Tyr	His	Arg	Asn	11e 190	His	Tyr
Asn	Ser	Val 195	Val	Asn	Pro	Asn	Lys 200	Ala-	Thr	Ile	Gly	Val 205	-	Leu	Gly
Leu.	Pro 210		Phe	Ly.s	Pro	Gly 215		Ala:	Glu	Gln,	Ser 220	Leu _.	Met	Lys	Asn
Ala: 225.		Lys	Thr	Ser	Glu 230	Glu	Ser	Trp	Ile	Glu 235	Gln	Gln	Met	Leu	Glu 240
Asp	Lys	Lys	Arg	Ala 245	Thr	Asp	Trp	Glu	Ala 250	Thr	Asn	Glu	Ala	Ile 255	Glu
Glu	Gln		Ala 260	_	Glu	Ser	Tyr	Leu 265	Gln	Trp	Leu	Arg	Asp 270	Gln	Glu
Lys			Arg		Val		Gly 280	Pro		Gln	Pro	Arg 285	Lys	Ala	Ser
Ala	Thr 290	Cys	Ser	Ser	Ala	Thr 295		Ala	Ala	Ser	Ser 300			Glu	Glu
Trp 305	Thr	Ser	Arg	Ser			Gln	Glu .	Phe	Gln 315	Pro			Leu	Ser 320
Thr	Leu	Ser	Cys	Met 325	Leu		Trp			:				•	-
•	•							٠			0		•		
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			guals	any	of		natu		y oc		ing	L-am	ino	acid	s
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Lys	Ar	g Pho	e Let	Arg	Asn	Phe	Lys	. Leu	Lei	ı Thi	Lvs	Arc	Gli	ı Phe	Trp
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														•	•
Lys	Gli	ı Ası	Glr	Glu	His	Tyr	His	: Ile	Va]	l Glr	Lvs	Phe	Len	Tle	Leu
			20			-		25			1-		30		. Deu
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Gly	Asp	Ile	e Asp	Gly	Leu	Met	Ast	Glu	Phe	. Ser	· I.ve	Trn	T.e.11	Sar	Lys
		35		-			40				-,,	45			Бүз
												7.			
Ser	Arc	Asr) Asn	Leu	Pro	Glv	His	Leu	Leu	Ara	Phe	Mot	Thr	Hic	Leu
	50)				55					60			1113	Leu
											00				
Ile	Leu	Phe	Phe	Arq	Thr	Leu	Glv	Leu	Gln	ጥ ከተ	T.ve	Glu	Glu	17 - 1	50=
65				,	70		2			75		Olu	GIU	Val	
										, ,					80
Ile	Glu	Val	Leu	Lvs	Thr	Tvr	Ile	Gln	Leu	T.e.n	Tle	Ara	GZ II	T	uio
				85		-1-			90		110	arg	GIU	பழக 95	птѕ
														93	
Thr	Asn	Leu	Ile	Ala	Phe	Tvr	Thr	Cvs	Hie	T.011	Pro	Cln	7.00	T 0	22-
			100			- 3 -		105	1113	Dea	FIU	GIII	110	reu	ALA
								103					110		
Val	Ala	Gln	Tyr	Ala	I.eu	Phe	Len	Glu	Sar	17 - 1	mb ~	C1	nh -	61	01
		115				1	120	GIU	Ser	Val	1111		Pne	GIU	GIN
							120					125			
Ara	His	His	Cys	Leu	Glu	T.eu	Δl=	Luc	Glu	ח ז ח	200	T 0	3	1	
3	130		1-			135	niu	Luys	GIU	AIA		reu	ASP	vaı	Ala
						133					140				
Thr	Ile	Thr	Lys	Thr	Val	17a l	Glu	A c n	Tla	۸	T	T	•	•	- 1
145			-,-		150	val	GIU	ASII	116	155	гåг	гуѕ	ASP	Asn	-
					130					155					160
Glu	Phe	Ser	His	Hie	Aen	T Au	۸1 م	Dro.	A 1 -	T 0		mb			
- .				165	nap	Deu	ALG	PLO	170	reu	ASP	THE	GIY		Thr
				+03					1/0					175	
Glu	Glu	Asp	Arg	Len	Luc	Tla	Ven	17-1	T10	۸	m	.			_
			180	DÇU.	בענים	116	vəħ		TIE	ASP	Trp	Leu		Phe	Asp
			100					185					190		
Pro	Δla	Gln	Δνα	A 1 a	C1	*1*			~ 1 -	۵,		- •			
	niu	195	Arg	nia	GIU	MIG		rys	GIN	GLY	Asn		Ile	Met	Arg
		. , ,					200					205			
.ve	Yaa.	ī.eu	λla	ee-	 T	T	*** -				_				
-y 3	210	neu	Ala	ser			піѕ	хаа .	АТА	Ala		Glu	Val	Phe	Val
	210					215					220				
.ve	Tla	Dra	G1-	A ==		- 1 -	N 1 -	a 1		_	_		_		
225	- TE	ETO	Gln			тте	АТА	GIU	rie		Asn	Gln	Cys	Glu	
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Gln	Gly	Met	Glu	Ser 245	Pro		Pro		Glu 250	Asp		Asn		11e 255	Arg
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Pro	Gln 290				Thr						Glu 300		Lys	Glu	Lys
Lys 305		Glu	Met	Asp	Phe 310	Gly	Ile	Trp	Lys	Gly 315	His	Leu	Asp	Ala	Leu 320
Thr	Ala	Asp	Val	Lys -325	Glu	Lys	Met	туг	Asn 330	Val	Leu	Leu	Phe	Val 335	Asp
Gly	Gly	Trp	Met 340	Val	Asp	Val	Arg	Glu 345	Asp	Ala	Lys	Glu	Asp 350	His	Glu
	Thr				Val			Arg	Lys	Leu	Суз	Leu 365	Pro	Met	Leu
Cys	Phe 370	Leu	Leu	His	Thr	Ile 375	Leu	His	Ser	Thr	Gly 380	Gln		Gln	Glu
Cys 385	Leu	Gln	Leu	Ala	Asp 390	Met	Val	Ser	Ser	Glu 395	Arg	His	Lys :		Tyr 400
Leu	Val	Phe			Glu						Leu				
Glu	Ser		Leu 420	Met	Leu	Leu		Gln 425	_	Leu	_	_	Leu 430	Gly	Tyr
Glu	Ile	Gln 435	Leu	• _	٠.	-	1					٠.		,	,
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Leu Leu Cys Leu Val Ser Tyr Ala Ser Leu Val Ala Thr Asn Ala Ala
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Arg Leu Arg Leu Ile Ala Gly Pro Glu Lys Arg Leu Leu Glu Met Gly
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Ser Tyr Leu Gly Gly Phe Asp Ser Ser Ser Asn Val Leu Ala Gly Gln
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Leu Arg Gly Val Pro Val Ala Gly Thr Leu Ala His Ser Phe Val Thr
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<223> Xaa equals any of the naturally occurring L-amino acids

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Pro	Thr	Ala 35	Thr	Ser	Leu	Pro	Ile 40	Pro	Arg	Lys	Ser	Ala 45	Thr	Val	Ile
	Glu 50		Glu	Gly		Lys 55		Glu	Ala	Lys	Ala 60		Asp	Asp	Met
Phe 65	-Glu	Ser	Ser	Thr	Leu 70	Ser	Asp	Gly	Gln	Ala 75		Ala	"Asp	Gln	Ser 80
Glu	Ile		Pro	85					90	_	Thr		Glu	95	туr
Glu	Asp		Lys 100												Ser
Gly	Ala	Glu 115	Glu	Ala	Leu	Val	Asp 120	His	Thr	Pro	Tyr	Leu 125	Ser	Ile	Ala
Thr	Thr 130	His	Leu	Met	Asp	Gln 135	Ser	Val	Thr		Val 140	Pro	Asp	Val	Met
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Thr	Phe		Lys								Ser	Pro	Leu	Thr 175	Ile
Tyr	Ser	Gly	Ser 180	Glu	Ala	Ser	Gly	His 185	Thr	Glu	Ile	Pro	Gln 190	Pro	Ser
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Ser	Phe 210	Lys	Glu								Thr 220		Lys	Pro	Ser
		Glu	Tyr								Ser			Pro	_

Thr	Lys	Leu	Glu	245		Glu	Asp	Asp	Gly 250		Pro	Glu	ı Let	255	
Glu	Met	Glu	Ala 260		Pro	Thr	Glu	Leu 265		e Ala	val	Glu	Gly 270		Glu
Ile	Leu	Gln 275		Phe	Gln	Asn	Lys 280	Thr	Xaa	Gly	Gln	Val 285		Gly	Glu
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Ile 305	Thr	Thr	Ala		Glu 310	Ile	Glu	Leu	Glu	Gly 315		Thr	Gln	Trp	9ro 320
His	Ser	Thr	Ser	Ala 325	Ser	Ala	Thr	Tyr	Gly 330		Glu	Ala	Gly	Val 335	
Pro	Trp		Ser 340	Pro	Gln	Thr	Ser	Glu 345	Arg	Pro	Thr	Leu	Ser 350		Ser
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	370			-	-	375	Gln				380				_
385					390		Asn			395					400
				405			Leu		410					415	
-		-	420				Ser	425					430		
		435					Met 440					445			
	450					455	Tyr				460				
465					470		Asp			475					480
•				485			Val		490					495	_
Leu	Cys		Pro		Tyr	Val	Gly	Ala 505	Leu	Cys	Glu		Asp	Thr	Glu

Thr	Cys	Asp 515		Gly	Trp	His	Lys 520		Gln	Gly	Gln	Cys 525	_	Lys	Tyr
	Ala 530		Arg	Arg	Thr	Trp 535		Ala	Ala	Glu	Arg 540	Glu	Cys	Arg	Leu
Gln 545		Ala	His	Leu	550				Ser			Glu	Gln	Met	Phe 560
Val	Asn	Arg	Val	Gly 565	His	Asp	Tyr	Gln	Trp 570	Ile	Gľy	Leu	Asn	Asp 575	Lys
Met	Phe	Glu	His 580	Asp	Phe	Arg	Trp	Thr 585		Gly	Ser	Thr	Leu 590	Gln	Tyr
Glu	Asn	Trp 595	Arg	Pro	Asn	Gln	600				,	605		Gly	
Asp	Cys 610	Val	Val	Ile	Ile	Trp 615	His	Glu	Asn	Gly	Gln 620	Trp	Asn	Asp	Val
Pro 625		Asn			Leu 630									Val	
Cys	Gly	Gln	Pro	Pro 645	Val	Val	Glu	Asn	Ala 650	Lys	Thr	Phe	Gly	Lys 655	Met
Lys	Pro	Arg	Tyr 660	Glu	Ile	Asn		Leu .665	-Ile	Arg:	Tyr	His	Cys 670	Lys	Asp
Gly	Phe	Ile. 675	Gln.	Arg	His	Leu	Pro 680	Thr	Ile	Arg.	Cys	Leu 685	Gly	Asn [:]	Gly
Arg	Trp 690	Ala	Ile	Pro	Lys	Ile 695	Thr	Cys	Met	Asn	Pro 700	Ser	Ala	Tyr	Gln
705					Lys 710		٠.			715					720
Asn	Ser	Ile	Asn"	Thr 725	Ser	Lys	His:	Asp	His. 730	Arg.	Trp	Ser		Arg. 735	Trp '
Gln	Glu	Ser	Arg 740	Arg		٠,			٠					٠:	
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Lys	Glu	Lys	Gly 20	Asn	Vaļ	Val	Leu	Lys 25		Glu	Xaa	Ser	Ala 30	-	Met
Lys	Ile	Pro		Asn	Met	Trp	Val 40		Ala	Trp	Gĺu	Thr 45	Ala	Lys	Pro
Ile	Pro 50	Ala	Arg	Arg	Gln	Arg 55	Arg	Leu	Phe	Asp	Asp 60	Thr	Arg	Glu	Ala
Glu 65	Lys	Val	Leu	His	Туг 70	Leu	Ala	Ile	Gln	Lys 75	Pro	Ala	Asp	Leu	Ala 80
Arg	His	Leu	Leu	Pro 85	Cys	Val	Ile	His	Ala 90	Ala	Val	Leu	Lys	Val 95	Lys
Glu	Glu	Glu	Ser 100	Leu	Glu	Asn	Ile	Ser 105	Ser	Val	Lys	Lys	Ile 110	Ile	Lys
Gln	Ile	Ile 115	Ser	His	Ser	Ser	Lys 120	Val	Leu	His	Phe	Pro 125	Asn	Pro	Glu
Asp	Lys 130	Lys	Leu	Glu	Glu	Ile 135	Ile	His	Gln	Ile	Thr 140	Asn	Val	Glu	Ala
Leu 145	Ile	Ala	Arg	Ala	Arg 150	Ser	Leu	Lys	Ala	Lys 155	Phe	Gly	Thr	Glu	Lys 160
Суѕ	Glu	Gln	Glu	Glu 165	Glu	Lys	Glu	Asp	Leu 170	Glu	Arg	Phe	Val	Ser 175	Cys
Leu	Leu	Glu	Gln 180	Pro	Glu	Val	Leu	Val 185	Thr	Gly	Ala	Gly	Arg 190	Gly	His
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Leu

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Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
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Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
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Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
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Ala	Gly	Leu	Ser 20		Trp	Thr	Leu	Gln 25	Pro	Gln	Trp	Ile	Gln 30		Arg
Asn	Met	Ala 35		Leu	Lys	Asp	Ile 40	Thr	Arg	Arg	Leu	Lys 45	Ser	Ile	Lys
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Tyr 65	Ala	Arg	Ala	Glu	Arg 70	Glu	Leu	Lys	Pro	Ala 75	Arg	Ile	Tyr	Gly	Leu 80
Gly	Ser	Leu	Ala	Leu 85	Tyr	Glu	Lys	Ala	Asp 90	Ile	Lys	Gly	Pro	Glu 95	Asp
Lys	Lys	Lys	His 100	Leu	Leu	Ile	Gly	Val 105	Ser	Ser	Asp	Arg	Gly 110	Leu	Суѕ
Gly	Ala	Ile 115	His	Ser	Ser	Ile	Ala 120	Lys	Gln	Met	Lys	Ser 125	Glu	Val	Ala
Thr	Leu 130	Thr	Ala	Ala	Gly	Lys 135	Glu	Val	Met	Leu	Val 140	Gly	Ile	Gly	Asp
Lys 145	Ile	Arg	Gly	Ile	Leu 150	Tyr	Arg	Thr	His	Ser 155	Asp	Gln	Phe	Leu	Val 160
Ala	Phe	Lys	Glu	Val 165	Gly	Arg	Lys	Pro	Pro 170	Thr	Phe	Gly	Asp	Ala 175	Ser
Val	Ile	Ala	Leu 180	Glu	Leu	Leu	Asn	Ser 185	Gly	Tyr	Glu	Phe	Asp 190	Glu	Gly
Ser	Ile	Ile 195	Phe	Asn	Lys	Phe	Arg 200	Ser	Val	Ile	Ser	Туг 205	Lys	Thr	Glu
Glu	Lys 210	Pro	Ile	Phe	Ser	Leu 215	Asn	Thr	Val	Ala	Ser 220	Ala	Asp	Ser	Met
Ser 225	Île	Tyr	Asp		Ile 230	Asp	Ala	Asp		Leu 235	Gln	Asn	Tyr	Gln	Glu 240

Тут	Ası	n Leu	ı Ala	245		: Ile	туг	туг	250		ı Lys	Glu	ı Ser	Thr 255	
Ser	Gli	ı Glr	Ser 260	Ala	Arg	Met	Thr	265		: Asp) Asr	Ala	270		AS:
Ala	Ser	Glu 275		: Ile	Asp	Lys	280		Leu	ı Thr	Phe	285		Thr	Ar
Gln	290		Ile	Thr		Glu 295		Ile	Glu	Ile	300		Gly	Ala	Ala
Ala 305	Leu	ı ·			'										٠
	. :			-	.i., .	2 Z								* 1900	
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Gly	Val	Val	Ala 20	Leu	Phe	Glu		His 25	Cys	Ala	Pro	Leu	Val 30	Trp	Val
Tyr	Thr	Tyr 35	Glu	Суз	Cys	His	Tyr 40	Met	Cys	Ser	Ala	Leu 45	Leu	Ser	Leu
Ser	Cys 50	Pro	Cys	Pro	Ala	Pro 55	Ser	Glu	Arg	Ala	Ala 60	Gly	Leu	Cys	Cys
Arg 65	Leu	Val	Vál	Pro	Cys 70	His	Lys	Gly	Met	Pro 75	Arg	Leu	Thr	Asp	Leu 80
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Glv	Glv	Trn	Gly	C1.	. מות	C1	G1	T	÷	G	3			_	
O L J	. Oly			GLY	АТА	GLY	Gly	гуз	Cys	cys	Asp	Ата	vai	Pro	GLY
		35					40				•	45			
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Arg	Gly	Arg	Arg	Val	Glu	Ala	Glu	Tyr	Gln	Phe	Pro	Ser	Glv	I.vs	Ala
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Ala	Met	Ala	Ile	Phe	Ser	Val	Tyr	Val	Val	Asn	Lys	Ala	Gly	Gly	Leu
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	:				-										
Tle	TVT	Gla	T.eu	Asn	Sar	Ф177	Ala	Bro	7	71-	C1		G1	7	m \-
	-] -	01	200		Der	TYT	ліа	FIU		Ald	GIU	ALA	GIU		Thr
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Phe	Ser	Tyr	Pro	Leu	Asp	Leu	Leu	Leu	Lys	Leu	His	Asp	Glu	Ara	Val
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								103					110		
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Leu	Val	Ala	Phe	Gly	Gln	Arg	Asp	Gly	Ile	Arg	Val	Gly	His	Ala	Val
		115					120					125			
T.em	Αla	Tle	Asn	Glv	Mo+	100	Val	N.c.n	C1	A ~~	m	m b		•	~1
		110	ASII	GLY	Me C		val	ASII	GIY	Arg		Thr	АТА	Asp	GLA
	130					135					140				
				-											
Lys	Glu	Val	Leu	Glu	Tyr	Leu	Gly	Asn	Pro	Ala	Asn	Tvr	Pro	Val	Ser
145					150		-	.*		155		-1-			160
										133					100
-1-					_	-									
Пе	Arg	Phe	Gly		Pro	Arg	Leu	Thr	Ser	Asn	Glu	Lys	Leu	Met	Leu
				165					170					175	
Ala	Ser	Met	Phe	Hie	Ser	T.Au	Phe	۸1 -	T10	C1	e	C1-	T	C	D
					501	Deu	FIIC		TIE	GIY	ser	GIII		ser	PIO
			180					185					190		
			-		•										
Glu	Gln	Gly	Ser	Ser	Gly	Ile	Glu	Met	Leu	Glu	Thr	Asp	Thr	Phe	Lvs
		195			-		200					205			
		, -					200					203			
· ·	** 2	•	_	~ 1		_									
Leu	HIS	cys	Tyr	GIN	Thr	Leu	Thr	Gly	Ile	Lys	Phe	Val	Val	Leu	Ala
	210					215					220				
				•	•										
Asp	Pro	Àra	Gln	Ala	Glv	Ile	Asp	Ser	[,en	Len	Ara	T.v =	Tle	ጥ፣ታ፦	G1

445	,				230	,				235	•				240
Ile	туг	Ser	. Asp	245		Leu	Lys	s Asr	250		туг	Ser	Leu	Glu 255	
Pro	Ile	e Arg	260		Leu	Phe	Asp	Glm 265		Leu	Lys	Leu	Ala 270		Glu
Val	Ala	Glu	Lys	Ala	Gly	Thr	Phe	Gly	Pro	Gly	Ser				
		275	•				280		!					٠	
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	0> 9				2										
	1> 3 2> P														
			sapi	ens	**						-				
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	0> 9		_	_		. • • •		· .	1				• •		
Pro 1	Val	Ser	Pro	Leu 5		Arg	Glu	GLu	10		Lys	Trp	Gly	Glu 15	
Trp	Cys	Gln	Met 20		Trp	Arg	Arg	Lys 25		Val	Pro	Gln	Arg 30	Gly	Arg
Lys	Ala	Pro 35	Pro	Pro	Gln	Leu	His 40	Gly	Asn	Ile	Asn	Asn 45	Leu	Tyr	Phe
Pro	Ile 50	Arg	Trp	Arg	Asp	Arg 55	Leu	His	Trp	Asp	Ser 60	Pro	Asn	Pro	Ala
Ala 65	Glu	Cys	Gln	Arg	Pro 70	Arg	Ser	Thr	Leu	Val 75	Ser	Arg	Lys	Pro	Gly 80
Pro	Gly	Arg	Ile	Thr 85	Trp	Asp	Glu	Leu	Ala 90	Ala	Ser	Gly	Leu	Pro 95	Ser
Cys	Asp	Ala	Ala 100	Val	Asn	Leu	Ala	Gly 105	Glu	Asn	Ile	Leu :	Asn 110	Pro	Leu
Arg	Arg	Trp	Asn	Glu	Thr	Phe	Gln 120	Lys	Glu	Val	Leu	Gly 125	Ser	Arg	Leu
Glu	Thr 130	Thr	Gln	Leu	Leu	Ala 135	Lys	Ala	Ile	Thr	Lys 140	Ala	Pro	Gln	Pro
Pro 145	Lys	Ala	Trp	Val	Leu 150	Val	Thr	Gly	Val	Ala 155	Tyr	Tyr	Gln	Pro	Ser 160
Leu	Thr	Ala	Glu	Tyr 165	Asp	Glu	Asp	Ser	Pro 170	Gly	Gly	Asp	Phe	Asp 175	Phe

Pile	: Ser	AST	180		. Thr	Lys	Trp	185		Ala	Ala	Arg	Leu 190		Gly
Asp	Ser	Thr 195	Arg	Gln	ı Val	Val	Val 200		Ser	Gly	Val	Val 205	Leu	Gly	Arg
Gly	Gly 210	Gly	Ala	Met	Gly	His 215		Leu	Leu	Pro	Phe 220	Arg	Leu	Gly	Leu
Gly 225	Gly	Pro	Ile	Gly	Ser 230	Gly	His	Gln	Phe	Phe 235	Pro	Trp	Ile	His	Ile 240
Gly	Asp	Leu	Ala	Gly 245	Ile	Leu	Thr	His	Ala 250	Leu	Glu	Ala	Asn	His 255	Val
His	Gly	Val	Leu 260	Asn	Gly	Val	Ala	Pro 265	Ser	Ser	Ala	Thr	Asn 270	Ala	Glu
Phe	Ala	Gln 275	Thr	Phe	Gly	Ala	Ala 280	Leu	Gly	Arg	Arg	Ala 285	Phe	Ile	Pro
Leu	Pro 290	Ser	Ala	Val	Val	Gln 295	Ala	Val	Phe	Gly	Arg 300	Gln	Arg	Ala	Ile
Met 305	Leu	Leu	Glu	Gly	Gln 310	Lys	Val	Ile	Pro	Arg 315	Arg	Thr	Leu		Thr 320
Gly	Tyr	Gln	Tyr	Ser 325	Phe	Pro	Glu	Leu	Gly 330	Ala	Ala	Leu		Glu 335	Ile
Val	Ala									• •					
<210															
<211 <212							•								
			apie	ns											
<220	>			-											
<221															
<222									٠.					-	
<223	> Xa	a eq	uals	any	of 1	the :	natu	rally	y oc	curr	ing 1	L-am:	ino a	acids	;
<220	>														

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (164)

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<222> (263)
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<220>
<221> SITÉ
<222> (267)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (268)
<223> Kaa equals any of the naturally occurring L-amino acids
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Cys Gln Glu Trp Val Pro Asp Arg Glu Ser Tyr Val Ser His Met Lys
Lys Ser His Gly Arg Thr Leu Lys Arg Tyr Pro Cys Arg Gln Xaa Glu
                           20
                                                                            25
Gln Ser Phe His Thr Pro Asn Ser Leu Arg Lys His Ile Arg Asn Asn
                                                                    40
His Asp Thr Val Lys Lys Phe Tyr Thr Cys Gly Tyr Cys Thr Glu Asp
            50 55
Ser Pro Ser Phe Pro Arg Pro Ser Leu Leu Glu Ser His Ile Ser Leu
                     70
Met His Gly Ile Arg Asn Pro Asp Leu Ser Gln Thr Ser Lys Val Lys
                                                                                     90
Pro Pro Gly Gly His Ser Pro Gln Val Asn His Leu Lys Arg Pro Val
               100 105 110
```

Ser	Gly	Val 115		/ Asp	Ala	Pro	120		Ser	Asr	ı Glş	7 Ala 125		Val	. Se:
Ser	Thr	Lys	Arg	His	Lys	Ser 135		Phe	Gln	Cys	140		Суs	s Ser	Phe
Ala 145	Thr	Asp	Ser	Gly	Leu 150		Phe	Gln	Ser	His 155		Pro	Gln	His	G1r 160
Val	Gly	Gln	Xaa	His 165		Pro	Met	Ser	Pro 170	Leu	Trp	Phe	Val	Leu 175	
Leu	Cys	Gln	Leu 180		Gln	Pro	Pro	Pro 185		His	Cys	Pro	Gln 190	_	Glu
Arg	Pro	Gly 195		Gly	Gly	Gly	Arg 200	Gly	Gly	Gly	Gly	Thr 205		Met	Ala
Val	Glu 210	Val	Ala	Glu	Gln	Arg 215	Arg	Ala	Pro	Gly	Xaa 220		Cys	Pro	Trp
Arg 225	Leu	Glu	Arg	Met	Asp 230	Trp	Lys			Pro 235	Val	Ser	Xaa	Cys	Gln 240
Leu	Thr	Gln	Arg	Arg 245	Gly	Asp	Суѕ	Trp	Ala 250	Arg	Pro	Leu	Arg	Thr 255	Met
Val	Ala	Thr	Met 260	Ile	Thr	Xaa	Asn	His 265	Arg	Xaa	Xaa	Arg	Thr 270	Arg	Thr
Ala	Thr	His 275	Cys	Pro	Leu	Arg	Cys 280	Asp	Arg	Arg	Leu	Cys 285	Ser	Val	His
Gly	Gln 290	Gly	Trp	Cys	Arg	Ser 295	Val	Phe	His	Leu	Pro 300	Cys	Gly	Pro	Trp
Lys 305	Ile	Lys	Gly	Ser	Ala 310	Pro	Ser	Val	Ser	Val 315	Thr	Gly	Cys	Thr	Leu 320
Glu															

<210> 939

<211> 151

<212> PRT

<213> Homo sapiens

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<220>
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<222> (67)
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Ala Ala Ser Xaa Gly Glu Gln Arg Glu Arg Ala Arg Leu Gln Thr Pro
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                          10
Thr Arg Pro His Ser Thr Ser Ala Arg Pro Arg Arg Gln Val Gln
                      25
Leu Leu Gln Leu Cys Gly Cys Ala Ala Lys Gly Xaa Ala His Gly Leu
Asp Val Thr Ser Pro Thr Val Ser Trp Leu Ala Cys Pro Cys Ala Arg
                       55
Pro Ser Xaa Ser Arg Gln Xaa Leu Gly Thr Ser Glu Glu Glu Pro Gly
       70 75
Xaa Asn Gly Lys Gly Gly Ile Gly Val His His Ser Leu Leu Leu Trp
               85
Ser Ser Thr Gly Gly Thr Xaa Met Glu Val Ser Cys Leu Thr Ser Leu
                             105
```

```
His Cys Thr Gly Pro Gly Met Pro Ile His Pro Leu Ala Glu Asp Thr 115 120 125
```

His Gln Val Ile Cys Glu Glu Thr Leu Gly Ser His His Leu Lys Ala 130 135 140

Arg Gly Ser Pro Ser His Arg 145 150

<210> 940

<211> 103

<212> PRT

<213> Homo sapiens

<220>

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<400> 940

Arg Cys Gly Trp Ser Ser Arg Ser Arg Ser Arg Cys Ala Arg Arg 1 5 10 15

Cys Pro Pro Ser Pro Cys Pro Thr Pro Arg His Val Pro Ser Ser Arg

His Pro Glu Val Cys Gly Leu Arg Thr Asn Ser His Arg Cys Leu Phe 35 40 45

Arg Pro Gln Leu Gln Ala Met Pro Ala Ala Gly Gly Val Leu Tyr Gln 50 55 60

Pro Ser Gly Pro Ala Ser Phe Pro Ser Thr Phe Ser Pro Ala Gly Ser 65 70 75 80

Val Glu Gly Ser Pro Met His Gly Val Tyr Met Ser Gln Pro Val Pro 85 90 95

Ala Ala Gly Pro Tyr Pro Xaa 100

<210> 941

<211> 136

<212> PRT

<213> Homo sapiens

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 Thr Ala Gly Arg Ser Asp Val Leu Pro Val Ala Gly Gly Glu Val Arg
 Ala Leu Gln Glu Gly Cys Gly Asp Lys Met Lys Ile Phe Val Gly
              20
 Asn Val Asp Gly Ala Asp Thr Thr Pro Glu Glu Leu Ala Ala Leu Phe
Ala Pro Tyr Gly Thr Val Met Ser Cys Ala Val Met Lys Gln Phe Ala
Phe Val His Met Arg Glu Asn Ala Gly Ala Leu Arg Ala Ile Glu Ala
                                         75
Leu His Gly His Glu Leu Arg Pro Gly Arg Ala Leu Val Val Glu Met
Ser Arg Pro Arg Pro Leu Asn Thr Trp Lys Ile Phe Val Gly Asn Val
         100
                                105
Ser Ala Ala Cys Thr Ser Gln Glu Leu Arg Xaa Ser Ser Ser Ala Ala
Asp Ala Ser Ser Ser Val Thr Trp
                     . 135
   130
<210> 942
<211> 61
<212> PRT
<213> Homo sapiens
<400> 942
Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
                                    10
Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
             20
Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
```

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser

55

50

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<210> 943
 <211> 580
 <212> PRT
<213> Homo sapiens
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<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
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Gly Ala Gln Ala Gln Ala Ser Ala Arg Pro Leu Gln Ala Phe Gly Ala
Arg Ala Arg Leu Gly Tyr Gly Pro Gly Arg Arg Arg Pro Pro Ser Ala
Arg Cys Leu Ser Gly Thr Ala Asn Arg Arg Glu Arg Arg Arg Val Gly
                            40
Leu Ser Ala Xaa Leu Gly Ala Gly Ala His Ala Arg Ala Pro Pro Gln
                        55
Ala Gly Ala Met Ala Ser Gly Ser Kaa Ala Glu Cys Leu Gln Gln Glu
Thr Thr Cys Pro Val Cys Leu Gln Tyr Phe Ala Glu Pro Met Met Leu
          85
Asp Cys Gly His Asn Ile Cys Cys Ala Cys Leu Ala Arg Cys Trp Gly
Thr Ala Glu Thr Asn Val Ser Cys Pro Gln Cys Arg Glu Thr Phe Pro
                           120
Gln Arg His Met Arg Pro Asn Arg His Leu Ala Asn Val Thr Gln Leu
    130. .
                       135
Val Lys Gln Leu Arg Thr Glu Arg Pro Ser Gly Pro Gly Gly Met
Gly Val Cys Glu Lys His Arg Glu Pro Leu Lys Leu Tyr Cys Glu Glu
                165
```

Asp	Gln	Met	Pro 180		Cys	Val	. Val	. Cys 185		Arq	g Ser	Arç	190	His	Arq
Gly	His	Ser 195		. Leu	Pro	Leu	Glu 200		Ala	Val	Glu	Gly 205		Lys	Glu
Gln	11e 210		Asn	Gln	Leu	Asp 215		Leu	Lys	Arc	7 Val 220		Asp	Leu	Lys
Lys 225	Arg	Arg	Arg	Ala	Gln 230	Gly	Glu	Gln	Ala	Arg 235		Glu	Leu	Leu	Ser 240
Leu	Thr	Gln	Met	Glu 245		Glu	Lys	Ile	Val 250		Glu	Phe	Glu	Gln 255	
Tyr	His	Ser	Leu 260		Glu	His	Glu	Tyr 265	Arg	Leu	Leu	Ala	Arg 270	Leu	Glu
Glu	Leu	Asp 275	Leu	Ala	Ile	Tyr	Asn 280	Ser	Ile	Asn	Gly	Ala 285		Thr	Gln
Phe	ser 290	Cys	Asn	Ile	Ser	His 295	Leu	Ser	Ser	Leu	11e 300	Ala	Gln	Leu	Glu
Glu 305	Lys	Gln	Gln	Gln	Pro 310	Thr	Arg	Glu	Leu	Leu 315	Gln	Asp	Ile	Gly	Asp 320
Thr	Leu	Ser	Arg	Ala 325	Glu	Arg	Ile	Arg	Ile	Pro	Glu	Pro	Trp	11e 335	Thr
Pro	Pro	Asp	Leu 340	Gln	Glu	Lys	Ile	His 345	Ile	Phe	Ala	Gln	Lys 350	Cys	Leu
Phe	Leu	Thr 355	Glu	Ser	Leu	Lys	Gln 360	Phe	Thr	Glu	Lys	Met 365	Gln	Ser	Asp
Met	Glu 370	Lys	Ile	Gln	Glu	Leu 375	Arg	Glu	Ala	Gln	Leu 380	Tyr	Ser	Val	Asp
Val 385	Thr	Leu	Asp	Pro	Asp 390	Thr	Ala	Tyr	Pro	Ser 395	Leu'	Ile	Leu	Ser	Asp 400
Asn	Leu	Arg	Gln	Val 405	Arg	Tyr	Ser	Tyr	Leu 410	Gln	Gln	Asp	Leu	Pro 415	Asp
Asn	Pro	Glu	Arg 420	Phe	Asn	Leu	Phe	Pro 425	Cys	Val	Leu	Gly	Ser 430	Pro	Cys
Phe		Ala	Gly	Arg	His		Trp	Glu	Val	Glu	Val	Gly	Asp	Lys	Ala

```
Lys Trp Thr Ile Gly Val Cys Glu Asp Ser Val Cys Arg Lys Gly Gly
  450
                       455
 Val Thr Ser Ala Pro Gln Asn Gly Phe Trp Ala Val Ser Leu Trp Tyr
                    470
                                       475
 Gly Lys Glu Tyr Trp Ala Leu Thr Ser Pro Met Thr Ala Leu Pro Leu
                                  490
Arg Thr Pro Leu Gln Arg Val Gly Ile Phe Leu Asp Tyr Asp Ala Gly
                               505
Glu Val Ser Phe Tyr Asn Val Thr Glu Arg Cys His Thr Phe Thr Phe
Ser His Ala Thr Phe Cys Gly Pro Val Arg Pro Tyr Phe Ser Leu Ser
                       535
Tyr Ser Gly Gly Lys Ser Ala Ala Pro Leu Ile Ile Cys Pro Met Ser
545
                   550
Gly Ile Asp Gly Phe Ser Gly His Val Gly Asn His Gly His Ser Met
               565 570 575
Glu Thr Ser Pro
   580
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<400> 944
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Ser 1	Ala	Thr	Gly	Ser 5		Glu	Lys	Glu	Cys 10		v Val	Thi	Ala	Thr 15	
Asp	Ala	Ser	Arg 20		Thr	Phe	Thr	Arç		Gly	Ser	Phe	Arg		Thr
Thr	Ala	Thr 35	Glu	Gln	Ala	Glu	Arg 40	•	Glu	Ile	Met	Lys 45		Met	Gln
	50		Lys			55					60				
65			Xaa		70		-		-	75 					80
			Thr	85	: .				90				-	95	
			Ala 100					105	-				110		
		115	Ala				120					125		**	
	130		Ile			135					140				
145			Lys		150					155					160
			Leu	165	,				170					175	
			180	٠	•		-	185					190		
		195	Pro				200					205			
	210		Arg			215					220				
225			Ala		230				. •	235		-			240
			Ala	245					250					255	
	_		260		-						•		270		

Phe	Leu	Thr 275		Gln	Pro	Val	Pro 280	Val	Gly	Val	Val	Pro 285	Ala	Leu	Gln
Pro	Ala 290	Phe	Val	Pro	Ala	Gln 295		Tyr	Pro	Val	Ala 300	Asn	Gly	Met	Pro
Tyr 305		Ala	Pro	Asn	Val 310	Pro	Val	Val		Ile 315	Thr	Xaa	Ser	Gln	Met 320
Val	Ala	Asn	Val	Phe 325		Thr	Ala	Gly	His 330	Pro	Gln	Ala	Ala	His 335	Pro
His	Gln	Ser	Pro 340	Ser	Leu	Val	Arg	Gln 345	Gln	Thr	Phe	Pro	His 350	Туг	Glu
Ala	Ser	Ser 355	Ala	Thr			Pro .360		Phe	Lys	Pro	Pro 365		Gln	His
Leu	Asn 370	Gly	Ser	Ala	Ala	Phe 375	Asn	Gly	Val	Asp	Asp 380		Arg	Leu	Ala
Ser 385	Ala	Asp	Arg	His	Thr 390	Glu	Val	Pro	Thr	Gly 395	Thr	Суз	Pro	Val	Asp 400
Pro	Phe	Glu	Ala	Gln 405	Trp	Ala	Ala	Leu	Glu 410	Asn	Lys	Ser	Lys	Gln 415	Arg
Thr	Asn	Pro	Ser 420	Pro	Thr	Asn	Pro	Phe 425	Ser	Ser	Asp	Leu	Gln 430	Lys	Thr
Phe	Glu	Ile 435	Glu	Leu											
)> 94												•		
	l> 16														
	?> PR														
~213	3> Hc	mo s	арте	ns											
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	> SI	TE		•		•	-								
	? (1				_										
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<400	> 94	5													
His l	Gly	Ser	Met	Arg 5	Arg	Leu	Leu	Ile	Pro.	Leu	Ala	Leu.	Trp	Leu 15	Gly
Ala	Val	Gly	Val 20	Gly	Val .	Ala	Glu :	Leu 25	Thr	Glu	Ala	Gln .	Arg 30	Arg	Gly

Leu Gln Val Ala Leu Glu Glu Phe His Lys His Pro Pro Val Gln Trp 35

Ala Phe Gln Glu Thr Ser Val Glu Ser Ala Val Asp Thr Pro Phe Pro 50

Ala Gly Ile Phe Val Arg Leu Glu Phe Lys Leu Gln Gln Thr Ser Cys 65

Arg Lys Arg Asp Trp Lys Lys Pro Glu Cys Lys Val Arg Pro Asn Gly 90

Arg Lys Arg Lys Cys Leu Ala Cys Ile Lys Leu Gly Ser Glu Asp Lys 100

Val Leu Gly Arg Leu Val Xaa Cys Pro Ile Glu Thr Gln Val Leu Arg 115

Glu Thr Gln Cys Leu Arg Val Gln Arg Ala Gly Glu Asp Pro His Ser 130

Phe Tyr Phe Pro Gly Gln Phe Ala Phe Ser Lys Ala Leu Pro Arg Ser

<210> 946 <211> 221

<212> PRT

<213> Homo sapiens

<220>

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<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 946

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Pro Gly Phe Thr Thr Leu Gly Phe Lys Asp Glu Arg Arg Asn Lys Val 20 25 30

Thr Phe Leu Ser Ser Ala Thr Thr Ala Leu Ser Met Gln Asn Asn Ser 35 40 45

Val Phe Gly Asp Leu Lys Ser Asp Glu Met Glu Leu Leu Tyr Ser Ala

60 50 55 Tyr Gly Asp Glu Thr Gly Val Gln Cys Ala Leu Ser Leu Gln Glu Phe 70 75 Val Lys Asp Ala Gly Ser Tyr Ser Lys Lys Val Val Asp Asp Leu Leu 85 90. Asp Gln Ile Thr Gly Gly Asp His Ser Arg Thr Leu Phe Gln Leu Lys 100 105 110 Gln Arg Arg Asn Val Pro Met Lys Pro Pro Asp Glu Ala Lys Val Gly 120 125 115 Asp Thr Leu Gly Asp Ser Ser Ser Val Leu Glu Phe Met Ser Met Lys Ser Tyr Pro Asp Val Ser Val Asp Ile Ser Met Leu Ser Ser Leu 150 155 Gly Lys Val Lys Lys Glu Leu Asp Pro Asp Asp Ser His Leu Asn Leu 165 170 175 Asp Glu Thr Thr Lys Leu Leu Gln Asp Leu His Glu Ala Gln Ala Asp 185 Ala Ala Leu Gly Xaa Arg Pro Thr Ser Ala Pro Cys Pro Thr Pro 195 200 205 Pro Arg Gly Thr Ser Thr Thr Trp Glu Ala Leu Leu Ala . 210 . 215 <210> 947 <211> 316 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (293) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (312) <223> Xaa equals any of the naturally occurring L-amino acids Glu Gln Tyr Val Cys Ala Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys

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Lys	Met	Ala	Thr 20		Lys	Ile	Ser	Val 25		Thr	Ile	Phe	Gly		Val
Asn	Asn	Ser 35	Thr	Met	Lys	Ile	Asp 40	His	Phe	Gln	Leu	Asp 45		Glu	Lys
Pro	Met 50		Val	Val	Asp	Asp 55	Glu	Asp	Leu	Val	Asp 60		Arg	Leu	Ile
Ser 65	Glu	Leu	Arg	Lyś	Glu 70	Tyr	Gly	Met	Thr	Tyr 75		Asp	Phe	Phe	Met 80
Val	Leu	Thr	Asp	Val 85	Asp	Leu	Arg	Val	Lys 90		Tyr	Tyr	Glu	Val 95	
Ile	Thr	Met	Lys 100	Ser	Val	Phe	Asp	Leu 105	Ile	Asp	Thr	Phe	Gln 110	Ser	Arg
Ile	Lys	Asp 115	Met	Glu	Lys	Gln	Lys 120	Lys	Glu	Gly	Ile	Val 125	Cys	Lys	Glu
	Lys 130	Lys	Gln	Ser	Leu	Glu 135	Asn	Phe	Leu	Ser	Arg 140	Phe	Arg	Trp	Arg
Arg 145	Arg	Leu	Leu	Val	Ile 150	Ser	Ala	Pro	Asn	Asp 155	Glu	Asp	Trp	Ala	Tyr 160
Ser	Gln	Gln	Leu	Ser 165	Ala	Leu	Ser	Gly	Gln- 170	Ala	Cys	Asn	Phe	Gly 175	•
Arg	His	Ile	Thr 180	Ile	Leu	Lys	Leu	Leu 185	Gly	Val	Gly	Glu	Glu 190	Val	Gly
Gly	Val	Leu 195	Glu	Leu	Phe	Pro	11e 200	Asn	Gly	Ser	Ser	Val 205	Val	Glu	Arg
Glu	Asp 210	Val	Pro	Ala	His	Leu 215	Val	Lys	Asp	Ile	Arg 220	Asn	Tyr	Phe	Gln
Val 225	Ser	Pro	Glu		Phe 230	Ser	Met	Leu	Leu	Val 235	Gly	Lys	Asp	Gly	Asn 240
Val	Lys	Ser	Trp	Tyr 245	Pro	Ser	Pro	Met	Trp 250	Ser	Met	Val	Ile	Val 255	Tyr
Asp	Leu	Ile	Asp 260	Ser	Met	Gln	Leu	Arg 265	Arg	Gln	Glu	Met	Ala 270	Ile	Gln
Gln	Ser	Lev	Glv	Met	Ara	CVS	Pro	Glu	Asn	Glu	ጥህዮ	Ala	Glv	Tur	Glu

		275	5 .				280)				285	;		
Tyr	His 290		туг	Xaa	Glr	Gly 295		Glr	n Asp	Gly	7 Tyr		. Asp	Asp	туr
Arg 305		His	. Glu	Ser	Tyr 310		: Xaa	Gly	туг	Pro 315		•			
•									-						
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<21	3> н	omo	sapi	ens											
<40	0> 9	48		·											
		-	Ala	Ser 5		His	Ala	Ser	Gly 10		Gln	Cys	Gln	Asp 15	Ser
Lys	Asp	Ser	Asn 20	His	Leu	Pro	Lys	Met 25	Ser	Leu	Ser	Ala	Phe 30	Thr	Leu
Phe	Leu	Ala 35		Ile	Gly	Gly	Thr 40	Ser	Gly	Gln	Tyr	Tyr 45	Asp	Tyr	Asp
Phe	Pro 50	Leu	Ser	Ile	Tyr	Gly 55	Gln	Ser	Ser	Pro	Asn 60	Cys	Ala	Pro	Glu
Cys 65	Asn	Cys	Pro	Glu	Ser 70	Tyr	Pro	Ser	Ala	Met 75	Tyr	Cys	Asp	Glu	Leu 80
Lys	Leu	Lys	Ser	Val 85	Pro	Met	Val	Pro	Pro 90	Gly	Ile	Lys	Tyr	Leu 95	Tyr
Leu	Arg	Asn	Asn 100	Gln	Ile	Asp	His	Ile 105	Asp	Glu	Lys	Ala	Phe 110	Glu	Asn
Val	Thr	Asp 115	Leu	Gln	Trp	Leu	Ile 120	Leu	Asp	His	Asn	Leu 125	Leu	Glu	Asn
Ser	Lys 130	Ile	Lys	Gly	Arg	Val 135	Phe	Ser	Lys	Leu	Lys 140	Gln	Leu	Lys	Lys
Leu 145	His	Ile			Asn 150		Leu			Ser 155			Pro	Leu	Pro 160
Lys	Ser														

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     <213> Homo sapiens
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    Leu Gly Phe Asn Tyr Tyr Tyr Lys Tyr Ser Asn Glu Gly Asp Ser His
    Leu Gly Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu
                20
                                     25
    Lys Trp Cys Thr Pro Arg Thr Asn Asn Ile Glu Leu His Tyr Cys Thr
    Gly Ala Tyr Arg Ile Ser Pro Val Asp Val Asn Ser Arg Pro Ser Ser
                             55
    Cys Leu Thr Asn Phe Leu Leu Asn Gly Arg Ser Val Leu Leu Glu Gln
     65
    Pro Arg Lys Ser Gly Ser Lys Val Ile Ser His Met Leu Ser Ser His
    Gly Gly Glu Ile Phe Leu His Val Leu Ser Ser Ser Arg Ser Ile Leu
                                   105
    Glu Xaa Pro Pro Ser Ile Ser Glu Gly Cys Gly Gly Arg Val Thr Asp
            115
    Tyr Arg Ile Thr Asp Phe Gly Glu Phe Met Arg Glu Asn Arg Leu Thr
    Pro Phe Leu Asp Pro Arg Tyr Lys Ile Asp Gly Ser Leu Glu Val Pro
    145
                        150
                                           155
Leu Glu Arg Ala Lys Asp Gln Leu Glu Lys His Thr Arg Tyr Trp Pro
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    Met Asp His Phe Thr Asn His His Phe
                180
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<210> 950 <211> 169

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Leu Gly Cys Thr Pro Leu Leu Pro Asn Asp Ser Gly His Pro Ser Glu
         20 1 1 1 1 25 1 1 20 30
Leu Gly Gly Thr Arg Arg Ala Gly Asn Gly Ala Leu Gly Gly Pro Lys
35 40 45
Ala His Arg Lys Leu Gln Thr His Pro Ser Leu Ala Ser Gln Gly Ser
                        60
                55
Lys Lys Ser Lys Ser Ser Ser Lys Ser Thr Thr Ser Gln Ile Pro Leu
65 70 75 80
Gln Ala Gln Glu Asp Cys Cys Val His Cys Ile Leu Ser Cys Leu Phe
                 90 _ 95
           85
Cys Glu Phe Leu Thr Leu Cys Asn Ile Val Leu Asp Cys Ala Thr Cys
    Gly Ser Cys Ser Ser Glu Asp Ser Cys Leu Cys Cys Cys Cys Gly
     115
              120
Ser Gly Glu Cys Ala Asp Cys Asp Leu Pro Cys Asp Leu Asp Cys Gly
                135
Ile Leu Asp Ala Cys Cys Glu Ser Ala Asp Cys Leu Glu Ile Cys Met
145 150 155 160.
Kaa Cys Cys Gly Leu Cys Phe Ser Ser
          165
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<210> 951
<211> 288
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<22	1> S 2> (234)		s an	y.of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
			•		•				1		,				
	0> 9 Ser		Glu	Thr 5	Gly	Arg	Val	Pro	Glu 10	Arg	Asp	Thr	Lys	Arg 15	
Gln	Val	Cys	Leu 20	Leu	Ser	Ala	Met	Pro 25	Leu	Pro	Val	Ala	Leu 30	Gln	Thr
Arg	Leu	Ala 35	Lys	Arg	Gly	Ile	Leu 40	Lys	His	Leu	Glu	Pro	Glu	Pro	Glu
Glu	Glu 50	Ile	Ile	Ala	Glu	Asp 55	Tyr	Asp	Asp	Asp	Pro 60	Val	Asp	Tyr	Glu
Ala 65	Thr	Arg	Leu	Glu	Gly 70	Leu	Pro	Pro	Ser	Trp 75	Tyr	Lys	Val	Phe	Asp 80
Pro	Ser	Cys	Gly	Leu 85	Pro	Tyr	Туr	Trp	Asn 90	Ala	Asp	Thr	Asp	Leu 95	Val
Ser	Trp	Leu	Ser 100	Pro	His	Asp		Asn 105	Ser	Val	Val	Thr	Lys 110	Ser	Ala
Lys	Lys	Leu 115	Arg	Ser	Ser	Asn		Asp	Ala	Glu	Glu	Lys 125	Leu	Asp	Arg
Ser	His 130	Asp	Lys	Ser	Asp	Arg 135	Gly	His	Asp	Lys	Ser 140	Asp	Arg	Ser	His
Glu 145	Lys	Leu	Asp	Arg	Gly. 150	His	Asp	Lys	Ser	Asp 155	Arg	Gly	His	Asp	Lys 160
Xaa	Asp	Arg	Asp	Arg 165	Glu	Arg	Gly	Tyr	Asp 170	Lys	Val	Asp	Arg	Glu 175	Arg
Glu	Arg	Asp	Arg 180	Glu	Arg	Asp	Arg	Asp 185	Arg	Gly	Tyr	Asp	Lys 190	Ala	Asp
Arg	Glu	Glu 195	Gly	Lys	Glu	Arg	Arg 200	His	His	Arg	Arg	Glu 205	Glu	Leu	Ala
Pro	Tyr 210	Pro	Lys	Ser		Lys 215	Ala	Val	Ser	Arg	Lys 220	Asp	Glu	Glu	Leu

Asp Pro Met Asp Pro Ser Ser Tyr Ser Xaa Arg Pro Arg Gly Thr Trp 235 Ser Thr Gly Leu Pro Lys Arg Asn Glu Ala Lys Thr Gly Ala Asp Thr 250 Thr Ala Ala Gly Pro Leu Phe Gln Gln Arg Pro Tyr Pro Ser Pro Gly Ala Val Leu Arg Ala Asn Ala Glu Ala Ser Arg Thr Lys Gln Gln Asp 275 280 285 and the contract of the contra <210> 952 . . <211> 323 <212> PRT <213> Homo sapiens <400> 952 Val Gly Gly Val Leu Pro Gly Trp Lys Leu Arg Pro Arg. Ser Asp Gly 10 Gly Leu Ser Glu Asp Gly Pro Gly Arg Asp His Gly Gly Ser Arg . . . 20 Gly Gly Arg Gly Gly Ala Ala Gly Gly Arg Gly Gly Cys Gly Pro Gln Gly Ala Val Gly Gly Met Ala Arg Ala Ser Ser Gly Asn Gly Ser Glu Glu Ala Trp Gly Ala Leu Arg Ala Pro Gln Gln Gln Leu Arg Glu Leu Cys Pro Gly Val Asn Asn Gln Pro Tyr Leu Cys Glu Ser Gly His 90 Cys Cys Gly Glu Thr Gly Cys Cys Thr Tyr Tyr Tyr Glu Leu Trp Trp 100 105 110 Phe Trp Leu Leu Trp Thr Val Leu Ile Leu Phe Ser Cys Cys Cys Ala Phe Arg His Arg Arg Ala Lys Leu Arg Leu Gln Gln Gln Arg Gln

130 135 140

Arg Glu Ile Asn Leu Leu Ala Tyr His Gly Ala Cys His Gly Ala Gly

145					150					155					160
Pro	Phe	Pro	Thr	Gly 165	Ser	Leu	Leu	Asp	Leu 170		Phe	Leu	Ser	Thr 175	Phe
Lys	Pro	Pro	Ala 180	туг	Glu	Asp	Val	Val 185		Arg	Pro	Gly	Thr 190		Pro
Pro	Pro	Туг 195	Thr	Val	Ala	Pro	Gly 200		Pro	Leu	Thr	Ala 205		Ser	Glu
Gln	Thr 210	Cys	Cys	Ser	Ser	Ser 215	Ser	Ser	Суз	Pro	Ala 220	His	Phe	Glu	Gly
Thr 225	Asn	Val	Glu	Gly	Val 230	Ser	Ser	His	Gļn	Ser 235	Ala	Pro	Pro	His	Gln 240
Glu	Gly	Glu	Pro	Gly 245	Ala	Gly	Val	Thr	Pro 250	Ala	Ser	Thr	Pro	Pro 255	Ser
Cys	Arg	Tyr	Arg 260	Arg	Leu	Thr	Gly	Asp 265	Ser	Gly	Ile	Glu	Leu 270	Cys	Pro
Cys	Pro	Ala 275	Ser	Gly	Glu	Gly	Glu 280	Pro	Val	Lys	Glu	Val 285	Arg	Val	Ser
Ala	Thr 290	Leu	Pro	Asp	Leu	Glu 295	Asp	Tyr	Ser	Pro	Cys 300	Ala	Leu	Pro	Pro
Glu 305	Ser	Val	Pro	Gln	Ile 310	Phe	Pro	Met	Gly	Leu 315	Ser	Ser	Ser	Glu	Gly 320.
Asp	Ile	Pro										•			
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	> 43														
	?> PF }> Hc	emo s	apie	ens											
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Arg	Tyr	Lys	Met 20	Pro	Arg	Leu	Ile	Ala 25	Lys	Val	Glu	Gly	Lys 30	Gly	Asn
Gly	Ile	Lys 35	Thr	Val	Ile	Val	Asn 40	Met	Val	Asp	Val	Ala 45	Lys	Ala	Leu

Asn	Arg 50	j Pro) Pro) Thr	Tyr	Pro 55		. Lys	туз	r Phe	Gly 60		s Glu	ı Let	ı Gly
Ala 65	Gln	Thr	Gln	Phe	Asp 70		Lys	. Asn	Asp	Arg 75		Ile	e Val	l Asr	Gly 80
Ser	His	Glu	Ala	Asn 85		Leu	Gln	Asp	Met 90		Asp	Gly	7 Ph∈	95	Lys
Lys	Phe	Val	Leu 100		Pro	Glu	Cys	Glu 105		Pro	Glu	Thr	Asp 110		His
Val	Asn	Pro 115		Lys	Gln	Thr	Ile 120		Asn	Ser	Cys	Lys 125		Cys	Gly
Tyr	Arg 130	Gly	Met	Leu	Asp	Thr 135	His	His	Lys	Leu	Cys 140	Thr	Phe	Ile	Leu
Lys 145	Asn	Pro	Pro	Glu	Asn 150	Ser	Asp	Ser	Gly	Thr 155	Gly	Lys	Lys	Glu	Lys 160
Glu	Lys	Lys	Asn	Arg 165	Lys	Gly	Lys	Asp	Lys 170	Glu	Asn	Gly	Ser	Val 175	Ser
Ser	Ser	Glu	Thr 180	Pro	Pro	Pro	Pro	Pro 185	Pro	Pro	Asn	Glu	Ile 190	Asn	Pro
Pro	Pro	His 195	Thr	Met	Glu	Glu	Glu 200	Glu	Asp	Asp	Asp	Trp 205	Gly	Glu	Asp
Thr	Thr 210	Glu	Glu	Ala	Gln	Arg 215	Arg	Arg	Met	Asp	Glu 220	Ile	Ser	Asp	His
Ala 225	Lys	Val	Leu	Thr	Leu 230	Ser	Asp	Asp	Lėu	Glu 235	Arg	Thr	Ile	Glu	Glu 240
Arg	Val	Asn	Ile	Leu 245	Phe	Asp	Phe	Val	Lys 250	Lys	Lys	Lys	Glu	Glu 255	Gly
Val	Ile	Asp	Ser 260	Ser	Asp	Lys	Glu	Ile 265	Val	Ala	Glu	Ala	Glu 270	Arg	Leu
Asp		Lys 275	Ala	Met	Gly		Leu 280	Val	Leu	Thr		Val 285	Leu	Phe	Asn
	Lys 290	Ile	Arg	Glu		Ile: 295	Lys	Lys	Tyr	Arg	Arg 300	His	Phe	Leu	Arg
Phe (His	Asn .		Lys 1 310	Lys .	Ala	Gln .		Tyr 315	Leu	Leu	His		Leu 320

Glu Cys Val Val Ala Met His Gln Ala Gln Leu Ile Ser Lys Ile Pro 325 330 His Ile Leu Lys Glu Met Tyr Asp Ala Asp Leu Leu Glu Glu Glu Val Ile Ile Ser Trp Ser Glu Lys Ala Ser Lys Lys Tyr Val Ser Lys Glu 360 Leu Ala Lys Glu Ile Arg Val Lys Ala Glu Pro Phe Ile Lys Trp Leu 375 Lys Glu Ala Glu Glu Glu Ser Ser Gly Gly Glu Glu Asp Glu Asp 385 390 Glu Asn Ile Glu Val Val Tyr Ser Lys Ala Ala Ser Val Pro Lys Val 405 410 Glu Thr Val Lys Ser Asp Asn Lys Asp Asp Asp Ile Asp Ile Asp Ala 425

Ile

<210> 954 <211> 428 <212> PRT <213> Homo sapiens

Gly Tyr Gln Ile Gly Met Ala Leu Ala Ser Gly Pro Ala Arg Arg Ala

1 5 10 15

Leu Ala Gly Ser Gly Gln Leu Gly Leu Gly Gly Phe Gly Ala Pro Arg $20 \hspace{1cm} 25 \hspace{1cm} 30$

Arg Gly Ala Tyr Glu Trp Gly Val Arg Ser Thr Arg Lys Ser Glu Pro
35 40 45

Pro Pro Leu Asp Arg Val Tyr Glu Ile Pro Gly Leu Glu Pro Ile Thr 50 55 60

Phe Ala Gly Lys Met His Phe Val Pro Trp Leu Ala Arg Pro Ile Phe 65 70 75 80

Pro Pro Trp Asp Arg Gly Tyr Lys Asp Pro Arg Phe Tyr Arg Ser Pro 85 90 95

Pro	Leu	His	100		Pro	Leu	туг	Lys 105		Glr	n Ala	Cys	110		e Phe
His	His	Arg		Arg	. Leu	Leu	Glu 120		Val	Lys	Glr	125		Trp) Leu
Thr	Lys 130		Lys	Leu	Ile	Glu 135	Gly	Leu	Pro	Glu	Lys 140		. Leu	Ser	Leu
Val 145		Asp	Pro	Arg	Asn 150		Ile	Glu		Gln 155			Cys		Leu 160
Asn	Val	Ile	Ser	His 165		Arg	Leu	Trp	Gln 170		Thr	Glu	Glu	11e	
Lys	Arg	Glu			Cys		Val								
Cys	Lys	Ser 195	Gln	Ile	Leu	Lys	His 200	Pro	Ser	Leu	Ala	Arg 205	Arg	Ile	Cys
Val	Gln 210	Asn	Ser	Thr	Phe	Ser 215	Ala	Thr			Arg 220		Ser	Leu	Leu
Leu 225	Gln	Val	Arg	Gly	Ser 230		Gly	Ala		Leu 235	Ser	Thr	Lys	Asp	Pro 240
Leu	Pro	Thr	Ile	Ala 245	Ser	Arg	Glu	Glu	Ile 250	Glu	Ala		Lys	Asn 255	His
Val	Leu	Glu	Thr 260	Phe	Tyr	Pro	Ile	Ser 265	Pro	Ilė	Ile	Asp	Leu 270	His	Glu
Cys	Asn	Ile 275	Tyr	Asp	Val	Lys	Asn 280	Asp	Thr	Gly	Phe	Gln 285	Glu	Gly	Tyr
Pro	Туг 290	Pro	Tyr	Pro	His	Thr 295	Leu	Tyr	Leu	Leu	Asp 300	Lys	Ala	Asn	Leu
Arg 305	Pro	His			Gln -3:10		Asp	Gln	Leu	Arg 315	Ala	Lys	Met	Ile	Leu 320
Phe	Ala	Phe	Gly	Ser 325	Ala	Leu	Ala	Gln	Ala 330	Arg	Leu	Leu		Gly 335	Asn
Asp	Ala	Lys	Val 340	Leu	Glu	Gln	Pro	Val 345	Val	Val	Gln	Ser	Val 350	Gly	Thr
Asp		Arg		Phe	His		Leu					Asn 365	Thr	Thr	Asp

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Leu Asp Ser Asn Glu Gly Val Lys Asn Leu Ala Trp Val Asp Ser Asp
                         375
Gln Leu Leu Tyr Gln His Phe Trp Cys Leu Pro Val Ile Lys Lys Arg
                                         395
 Val Val Val Glu Pro Val Gly Pro Val Gly Phe Lys Pro Glu Thr Phe
                 405
                                     410
Arg Lys Phe Leu Ala Leu Tyr Leu His Gly Ala Ala
<210> 955
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Asp Arg Met Leu Val Leu Gly Asp Leu His Ile Pro His Arg
             20
                                 25
Cys Asn Ser Leu Pro Ala Lys Phe Lys Lys Leu Leu Val Pro Gly Lys
Ile Gln His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr
Asp Tyr Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp
                    70
                                        75
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Phe Asp Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly

					85					90					95	
Gln	Pl	e	Lys	Ile 100	Gly	Leu	Ile	His	Gly 105	His	Gln	Val	Ile	Pro 110		Gly
Asp	Me	t	Ala 115	Ser	Leu	Ala	Leu	Leu 120	Gln	Arg	Gln	Phe	Asp 125	Val	Asp	Ile
Leu	I1 13		Xaa	Gly	His	Thr	His 135	Lys	Phe	Glu	Ala	Xaa 140	Glu	His	Glu	Asr
Lys 145	Ph	e	Tyr	Ile	Asn	Pro 150	Gly	Ser	Ala	Thr	Gly 155	Ala	Tyr	Asn	Ala	Let 160
Glu	Th	r	Asn	Ile	I-le 165	Xaa	Ser	Leu	Суз				-			
										-			•			
<210 <211 <212	!> !>	39 PR	T					-	.:			-				
<213	}>	Но	mo s	sapie	ens								•			
<400 Ser 1				Cys	Gly 5	Leu	Gln	Val	Met	Leu 10	Phe	Leu	Leu	His	His 15	Thr
Leu	Tr	p (Cys	Leu 20	Leu	Pro	Cys	Ala	Ser 25	Ser	Leu	Arg	Leu	Ile 30	Lys	Lys
Val	Se	r .	Arg 35	Leu	Leu	Gln	Leu									
											•					
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<220				. •												
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<222 <223				uals	anv	of	the	natu			curr		L-am	ino	acid	s
<220			•					- -	-							-
<221		s I i	ΓE			•				-				•		
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				uals	any	of	the	natu	rall	y oc	curr.	ing	L-am	ino	acid	s

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Asp	Leu	Ala	Ala 20	Ala	Met	Ala	Val	Asp 25		Ser	Asn	Pro	Thr 30	Ser	Lys
His	Lys	Ser 35		Ala	Val	Ala	Ser 40	Leu	Leu	Ser	Lys	Ala 45	Glu	Arg	Ala
Thr	Glu 50	Leu	Ala	Ala	Glu	Gly 55	Gln	Leu	Thr	Leu	Gln 60	Gln	Phe	Ala	Glr
Ser 65	Thr	Glu	Met	Leu	Lys 70	Arg	Val	Val	Gln	Glu 75	His	Leu	Pro	Leu	Met 80
Ser	Glu	Ala	Gly	Ala 85	Gly	Leu	Pro	Asp	Met 90	Glu	Ala	Val	Ala	Gly 95	Ala
Glu	Ala	Leu	Asn 100	Gly	Gln	Ser	Asp	Phe 105	Pro	Tyr	Leu	Gly	Ala 110	Phe	Pro
Ile	Asn	Pro 115	Gly	Leu	Phe	Ile	Met 120		Pro	Ala	Gly	Val 125	Phe	Leu	Ala
Glu	Ser 130	Ala	Leu	His	Met	Ala 135	Gly	Leu	Ala	Glu	Tyr 140	Pro	Met	Gln	Gly
Glu 145	Leu	Ala	Ser	Ala	Ile 150	Ser	Ser	Gly	Lys	Lys 155	Lys	Arg	Lys	Arg	Cys 160
Gly	Met	Cys	Ala	Pro 165	Cys	Arg	Arg	Arg	Ile 170	Asn	Cys	Glu	Gln	Cys 175	Ser
Ser	Cys	Arg	Asn 180	Arg	Lys	Thr	Gly	His 185	Gln	Ile	Cys	Lys	Phe 190	Arg	Lys
Cys	Glu	Glu 195	Leu	Lys	Lys	Lys	Pro 200	Ser	Ala	Ala	Leu	Glu 205	Lys	Val	Met
Leu	Pro	Thr	Gly	Ala	Ala	Phe	Arg	Trp	Phe	Gln					

<210> 958 <211> 259 <212> PRT <213> Homo sapiens

210

<220>

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	•		qual	s an	y of	the	nat	ural	ly c	ccur	ring	L-a	mino	aci	ds
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1				5					10					15	
Lys	Leu	Pro	Lys 20	Xaa	Arg	Lys	Thr	Gly 25		Thr	Ile	Ala	Gly 30	Val	Val
Tyr	Lys	Asp 35		Ile	Val	Leu	Gly 40	Ala	Asp	Thr	Arg	Ala 45		Glu	Gly
Met	Val 50	Val	Ala	Asp	Lys	Asn 55	Cys	Ser	Lys	Ile	His 60	Phe	Ile	Ser	Pro
Asn 65	Ile	Tyr	Cys	Cys	Gly 70	Ala	Gly	Thr.	Xaa	Ala 75	Asp	Thr	Asp	Met	Thr 80
Thr	Gln	Leu	Ile	Ser 85	Ser	Asn	Leu	Glu	Leu 90	His	Ser	Leu	Ser	Thr 95	_
Arg	Leu	Pro	Arg	Val	Val	Thr	Ala	Asn 105	Arg	Met	Leu	Lys	Gln 110	Met	Leu
Phe	Arg	Tyr 115	Gln	Gly	Tyr	Ile	Gly 120	Ala	Ala	Leu	Val	Leu 125	Gly	Gly	Val
Asp	Val 130	Thr	Gly	Pro	His	Leu 135	Tyr	Ser	Ile	Туг	Pro 140	His	Gly	Ser	Thr
Asp 145	Lys	Leu	Pro	Tyr	Val 150	Thr	Met	Gly	Ser	Gly 155	Ser	Leu	Ala	Ala	Met 160
Ala	Val	Phe	Glu	Asp 165	Lys	Phe	Arg	Pro	Asp 170	Met	Glu	Glu	Glu	Glu 175	Ala
Lys	Asn	Leu	Val 180	Ser	Glu	Ala	Ile	Ala 185	Ala	Gly	Ile	Phe	Asn 190	Asp	Leu
Gly	Ser	Gly 195	Ser	Asn	Ile	Asp	Leu 200	Cys	Val	Ile	Ser	Lys 205		Lys	Leu
Asp	Phe	Leu	Arg	Pro	Tyr	Thr	Val	Pro	Asn	Lys	Lys	Gly	Thr	Arg	Leu

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Gly Arg Tyr Arg Cys Glu Lys Gly Thr Thr Ala Val Leu Thr Glu Lys 225 230 230 235
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Ile Thr Pro Leu Glu Ile Glu Val Leu Glu Glu Thr Val Gln Thr Met 245 250 255

Asp Thr Ser

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<210> 959
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<211> 75

<212> PRT

<213> Homo sapiens

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<222> (36)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 959

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Pro Leu Glu Met Gln Phe Arg Gln Arg Pro Cys Gly Glu Ser Cys Asn 20 25 30

Ile Lys Phe Xaa Phe Arg Arg Ser Xaa Pro Gln Thr Ser Glu Pro Leu 35 40 45

Ala Val Leu Pro Xaa Asn Lys Asn Glu Leu Glu Lys Lys Val Ala Gln
50 55 60

Leu Gln Arg Ser Lys Ser Ser Tyr Phe Pro Thr
65 70 75

<210> 960

<211> 128

<212> PRT

<213> Homo sapiens

<400> 960

Gln Ser Arg Gly Leu Arg Leu Leu Gly Pro Gly Asp Gly Ala Gly Met
1 5 10 15

Thr Pro Gly Val Val His Ala Ser Pro Pro Gln Ser Gln Arg Val Pro
20 25 30

Arg Gln Ala Pro Cys Glu Trp Ala Ile Arg Asn Ile Gly Gln Lys Pro
35 40 45

Lys Glu Pro Asn Cys His Asn Cys Gly Thr His Ile Gly Leu Arg Ser 50 60.

Lys Thr Leu Arg Gly Thr Pro Asn Tyr Leu Pro Ile Arg Gln Asp Thr 65 70 75 80

His Pro Pro Ser Val Ile Phe Cys Leu Ala Gly Val Gly Val Pro Gly 85 90 95

Gly Thr Cys Arg Pro Ala Pro Cys Val Pro Arg Phe Ala Ala Leu Pro 100 105 110

Trp Ala Thr Asn His Pro Gly Pro Gly Cys Leu Ser Asp Leu Arg Ala 115 120 125

<210> 961

<211> 564

<212> PRT

<213> Homo sapiens

<400> 961

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Leu Ala Gly His Glu Asn Trp Val Asn Ala Val His Trp Gln Pro Val 20 25 30

Phe Tyr Lys Asp Gly Val Leu Gln Gln Pro Val Arg Leu Leu Ser Ala 35 40 45

Ser Met Asp Lys Thr Met Ile Leu Trp Ala Pro Asp Glu Glu Ser Gly 50 60

Val 65	Trp	Leu	Glu	Gln	Val 70	Arg	Val	Gly	Glu	Val 75	_	Gly	Asn	Thr	Leu 80
Gly	Phe	туг	Asp	Cys 85	Gln	Phe	Asn	Glu	Asp 90	Gly	Ser	Met	Ile	Ile 95	Ala
His	Ala	Phe	His 100	Gly	Ala	Leu	His	Leu 105	Trp	Lys	Gln	Asn	Thr 110	Val	Asn
Pro	Arg	Glu 115	Trp	Thr	Pro	Glu	11e 120	Val	Ile	Ser	Gly	His 125	Phe	Asp	Gly
Val	Gln 130	Asp	Leu	Val	Trp	Asp 135	Pro	Glu	Gly	Glu	Phe 140	Ile	Ile	Thr	Val
Gly 145	Thr	Asp	Gln	Thr	Thr 150	Arg	Leu	Phe	Ala	Pro 155	Trp	Lys	Arg	Lys	Asp
Gln	Ser	Gln	Val	Thr 165	Trp	His	Glu	Ile	Ala 170	Arg	Pro	Gln.	Ile	His 175	Gly
туг	Asp	Leu	Lys 180	Cys	Leu	Ala	Met	Ile 185	Asn	Arg	Phe	Gln	Phe 190	Val	Ser
Gly	Ala	Asp 195	Glu	Lys	Val	Leu	Arg 200	Val	Phe	Ser	Ala	Pro 205	Arg	Asn	Phe
Val	Glu 210	Asn	Phe	Cys	Ala	11e 215	Thr	Gly	Gln	Ser	Leu 220	Asn	His	Val	Leu
Cys 225	Asn	Gln	Asp	Ser	Asp 230	Leu	Pro	Glu	Gly	Ala 235	Thr	val	Pro	Ala	Leu 240
Gly	Leu	Ser	Asn	Lys 245	Ala	Val	Phe	Gln	Gly 250	Asp	Ile	Ala	Ser	Gln 255	Pro
Ser	Asp	Glu	Glu 260	Glu	Leu	Leu	Thr	Ser 265	Thr	Gly	Phe	Glu	Tyr 270	Gln	Gln
Val	Ala	Phe 275	Gln	Pro	Ser	Ile	Leu 280	Thr	Glų	Pro	Pro	Thr 285	Glu	Asp	His
Leu	Leu 290	Gln	Asn	Thr	Leu	Trp 295	Pro	Glu	Val	Gln	Lys 300	Leu	Tyr	Gly	His
Gly 305	туг	Glu	Ile	Phe	Cys 310	Val	Thr	Cys	Asn	Ser 315	Ser	Lys	Thr	Leu	Leu 320
Ala	Ser	Ala	Cys	Lys 325	Ala	Ala	Lys	Lys	Glu 330	His	Ala	Ala	Ile	Ile 335	Leu

Trp	Asr	Thi	340		Trp	Lys	Gln	Val 345		n Asr	ı Lev	ı Val	250		s Se
Leu	Thr	7a] 355		Glr	Met	Ala	360		Pro) Asn	Glu	1 Lys 365		e Leu	ı Let
Ala	Val 370		Arg	Asp	Arg	Thr 375	Trp	Ser	Leu	Trp	Lys 380		Gln	Asp	Thi
11e 385	Ser	Pro	Glu	Phe	Glu 390		Val	Phe	Ser	Leu 395		Ala	Phe	Thr	Asr 400
Lys	Ile	Thr	Ser	Val 405		Ser	Arg	Ile	Ile 410		Ser	Cys	Asp	Trp	
Pro	Asp	Ser	Lys 420		Phe	Phe	Thr	Gly 425	Ser	Arg	Asp	Lys	Lys 430		Val
Val	Trp	Gly 435		Cys ens	Asp	Ser	Thr 440	Asp	Asp	Cys	Ile	Glu 445	His	Asn	Ile
Gly	Pro 450	Cys			Val	Leu 455	Asp	Val	Gly	Gly	Ala 460	Val	Thr	Ala	Val
Ser 465	Val	Cys	Pro	Val	Leu 470	His	Pro	Ser			Tyr		Val	Ala	Val 480
Gly	Leu	Glu	Cys	Gly 485	Lys	Ile	Cys	Leu	Tyr 490	Thr	Trp	Lys	Lys	Thr 495	Asp
Gln	Val	Pro	Glu 500	Ile	Asn	Asp	Trp	Thr 505	His	Cys	Val	Glu	Thr 510	Ser	Gln
Ser	Gln	Ser 515	His	Thr	Leu	Ala	Ile 520	Arg	Lys	Leu	Суѕ	Trp 525	Lys	Asn	Cys
ser	Gly 530	Lys	Thr	Glu	Gln	Lys 535	Glu	Ala	Glu	Gly	Ala 540	Glu	Trp	Leu	His
Phe 545	Ala	Ser	Cys	Gly	Glu 550	Asp	His	Thr	Val	Lys 555	Ile	His	Arg	Val	Asn 560
Lys	Cys	Ala	Leu				-		• • • • • • • • • • • • • • • • • • • •	-	•	-		-	

<210> 962 <211> 43 <212> PRT

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<213> Homo sapiens
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<400> 962

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His 1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu 20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe 35 40

<210> 963

<211> 132

<212> PRT

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<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963

Glu Ser Arg Val Asp Pro Arg Val Arg Glu Arg Ser Ala Arg Thr Ala 1 5 10 15

Gly Ala Thr Val Gly Pro Ala Ala Val Met Ser Val Leu Arg Pro Leu 20 25 30

Asp Lys Leu Pro Gly Leu Asn Thr Ala Thr Ile Leu Leu Val Gly Thr 35 40 45

Glu Asp Ala Leu Leu Gln Gln Leu Ala Asp Ser Met Leu Lys Glu Asp 50 55 60

Cys Ala Ser Glu Leu Lys Val His Leu Ala Lys Ser Leu Pro Leu Pro 65 70 75 80

Ser Ser Val Asn Arg Pro Arg Ile Asp Leu Ile Val Phe Val Val Asn

Leu His Ser Lys Tyr Ser Leu Gln Asn Thr Glu Glu Ser Leu Arg His 100 105 110

Val Asp Ala Ser Phe Phe Leu Gly Lys Val Cys Phe Leu Ala Thr Gly 115 120 125

Gly Gly Xaa Leu 130

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<210> 964
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    <213> Homo sapiens
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   <400> 964
  His Glu Arg Ser Cys Cys Asp Ala Arg Ser Glu Ala Xaa Gln Gly Arg
    10 to the first of the second 
  Gly Arg Val Gly Ala Gly Ala Gly Ala Ala Trp Ser Ser Cys Gly Val
                                20 25 30
  Ser Gly Pro Gly Arg Gly Met Gly Val Leu Ala Ala Ala Ala Arg Cys
                                   Leu Val Arg Gly Ala Asp Arg Met Ser Lys Trp Thr Ser Lys Arg Gly
                   50 55 60
     the control of the matter with a control of the con
  Pro Arg Ser Phe Arg Gly Arg Xaa Gly Arg Gly Ala Lys Gly Ile Gly
                                               70
 Phe Leu Thr Ser Gly Trp Arg Phe Val Gln Ile Lys Glu Met Val Pro
                                           85 90 95
 Glu Phe Val Val Pro Asp Leu Thr Gly Phe Lys Leu Lys Pro Tyr Val
  100 105 110
 Ser Tyr Leu Ala Pro Glu Ser Glu Glu Thr Pro Leu Thr Ala Ala Gln
                         115 120
Leu Phe Ser Glu Ala Val Ala Pro Ala Ile Glu Lys Asp Phe Lys Asp
   130
                              135 140
                                                                                    Gly Thr Phe Asp Pro Asp Asn Leu Glu Lys Tyr Gly Phe Glu Pro Thr
                                                       150 155 160
                               150
Gln Glu Gly Lys Leu Phe Gln Leu Tyr Pro Arg Asn Phe Leu Arg
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<210> 965
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<212> PRT
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<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 965
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Lys Arg Lys Pro Ser Pro Gly Pro Gly Ser Leu Asp Leu Val Ser Leu
Gly Ser Gly Asn Ser Gly Ser Gln Arg Thr Val Leu Ile Met Asp Lys
                             40
Gln Asn Ser Gln Met Asn Ala Ser His Pro Glu Thr Asn Leu Pro Val
                         55
Gly Tyr Pro Pro Gln Tyr Pro Pro Thr Ala Phe Gln Gly Pro Pro Gly
Tyr Ser Gly Tyr Pro Gly Pro Gln Val Ser Tyr Pro Pro Pro Pro Ala
                                     90
Gly His Ser Gly Pro Gly Pro Ala Gly Phe Pro Val Pro Asn Gln Pro
                                105
            100
Val Tyr Asn Gln Pro Val Tyr Asn Gln Pro Val Gly Ala Ala Gly Val
                            120
Pro Trp Met Pro Ala Pro Gln Pro Pro Leu Asn Cys Pro Pro Gly Leu
    130
Glu Tyr Leu Ser Gln Ile Asp Gln Ile Leu Ile His Gln Gln Ile Glu
                    150
                                        155
Leu Leu Glu Val Leu Thr Gly Phe Glu Thr Asn Asn Lys Tyr Glu Ile
                                    170
                165
Lys Asn Ser Phe Gly Gln Arg Val Tyr Phe Ala Ala Glu Asp Thr Asp
            180
Cys Cys Thr Arg Asn Cys Cys Gly Pro Ser Arg Pro Phe Thr Leu Arg
```

		195					200					205			
Ile	Ile 210		Asn	Met	Gly	Gln 215		Val	Ile	Thr	Leu 220	Glu	Arg	Pro	Leu
Arg 225		Ser	Ser	Cys	Cys 230	Cys	Pro	Cys	Cys	Leu 235	Gln	Glu	Ile	Glu	11e 240
Gln	Ala	Pro	Pro	Gly 245	Val	Pro	Ile	Gly	Tyr 250	Va.l	Ile	Gln	Thr	Trp 255	His
Pro	Cys	Leu	Pro 260	Lys	Phe	Thr	Ile	Gln 265	Asn	Glu	Lys	Arg	Glu 270	Asp	Val
Leu	Lys	Ile 275	Ser	Gly	Pro	Cys	Val 280	Val	_. Cys	Ser	Cys	Cys 285	Gly	Asp	Val
Asp	Phe 290	Glu	Ile	Lys	Ser	Leu 295	Asp	Glu	Gln	Cys	Val 300	Val	Gly	Lys	Ile
Ser 305		His -	Trp	Thr	Gly 310	Ile	Leu	Arg	Glu	Ala 315	Phe	Thr	Asp	Ala	Asp 320
Asn	Phe	Gly	Ile	Gln 325	Phe	Pro	Leu.	Asp	Leu 330	Asp	<u>V</u> al	Lys	Met	Lys 335	Ala
Val	Met	Ile	Gly 340	Ala	Cys	Phe	Leu	11e 345	Asp	Phe	Met	Phe	Phe 350	Glu	Ser
Thr	Gly	Ser 355	Xaa	Glu	Gln	Lys	Ser 360	Gly	Val	Trp			`.:.		
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<21	0> 96 l> 13 2> PF	31		٠									•	·	
		omo s	apie	ens											
)> 96		Hic	Thr.	Ara	Tue	Gln	G1v	Pro	Glu	בומ	Glu	Pro	בות	Ala
															Ala .
		Gly		Pro			Thr			Ala	Pro	Pro		Glu	Glu
Val	Glu		Gly	Ser	Gly	Val	Arg 40	Ile	Val	Val			Cys		Pro
Cys		Phe											Val	Lys	Glu

Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala

```
Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
                 85 .
                                      90
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
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Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
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Val Ile Leu
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Pro Thr Pro Ala Ser His Ser Pro Ser Pro Ser Leu Pro Ala Leu Pro
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                                     10
                                                         15
Pro Ser Pro Pro His Arg Pro Asp Ser Pro Leu Phe Asn Ser Arg Cys
Ser Ser Pro Leu Gln Leu Asn Leu Leu Gln Leu Glu Glu Leu Pro Arg
                            40
Ala Glu Gly Ala Ala Val Ala Gly Gly Pro Gly Ser Ser Ala Gly Pro
     50
Pro Pro Pro Xaa Ala Glu Ala Ala Glu Pro Glu Ala Arg Leu Ala Glu
                                         75
Val Thr Glu Ser Ser Asn Gln Asp Ala Leu Ser Gly Ser Ser Asp Leu
```

Let	ı Glı	ı Lei	u Lei 100	ı Le	ı Glr	ı Glu	a Asg	9 Se:		g Sei	r Gly	y Thi	Gl ₂		c Al
Ala	se:	115		Lei	ı Gly	Ser	Gly 120		ı Gly	y Sei	Gly	/ Ser 125	_	, Sei	G1
Ser	His	Glu	ı Gly	Gly	. Ser	135		Ala	a Sei	: Ile	Thr 140		g Ser	Ser	G1:
Ser 145		His	Thr	Ser	Lys 150		Phe	Gly	/ Ser	11e		Ser	Ser	Glu	160
Glu	Ala	Gly	Ala	165	Arg	Gly	Gly	Ala	170		Gly	Asp	Gln	Val 175	
Lys	Туг	Val	Leu 180		Asp	Pro	Ile	Trp 185		Leu	Met	Ala	Asn 190		Asp
		195			Thr		200					205			
	210				Arg	215					220	•			
225					Asp 230					235		٠		:	240
	-			245	Gln				250	-				255	:
			260		Ser			265		-			270		
		275		:	Asp		280					285			
	290				Ser	295					300				_
305			•		Gly 310					315					320
				325	Glu				330		ser	Ser	Pro	Ala 335	Leu
	4	····a	GIY	ASII	Cys	T-11 E	Ser							*	

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<211> 67
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<212> PRT

<213> Homo sapiens

<400> 968

Arg Cys Ser Ser Phe Phe Leu Ser Leu Leu Val Lys Ile Thr Asn Ile 1 5 10

Trp Glu Gly Phe Lys Asp Ala Cys Tyr Gly Ala Asn Val Leu Ser Leu 20 25 30

Leu Asn Ser Arg Ser Glu Leu Leu Thr Cys Ile Gln Asn Ile Asn Ala 35 40 \cdot 45

Gln Asn Leu Tyr Met Ser Pro Ile Arg Lys Ile His Trp His Ala Thr 50 55 60

Gly Asp Ser 65

<210> 969

<211> 325

<212> PRT

<213> Homo sapiens

<400> 969

Leu Asn Leu Arg Ser Pro His Ile Cys Phe Arg Ser Ser Lys Pro Ser 1 5 10 15

Trp Ala Asp Gln Val Glu Glu Glu Gly Glu Asp Asp Lys Cys Val Thr 20 25 30

Ser Glu Leu Lys Gly Ile Pro Leu Ala Thr Gly Asp Thr Ser Pro 35 40 45

Glu Pro Glu Leu Leu Pro Gly Ala Pro Leu Pro Pro Pro Lys Glu Val $50 \hspace{1.5cm} 55 \hspace{1.5cm} 60$

Ile Asn Gly Asn Ile Lys Thr Val Thr Glu Tyr Lys Ile Asp Glu Asp 65 70 75 80

Gly Lys Lys Phe Lys Ile Val Arg Thr Phe Arg Ile Glu Thr Arg Lys 85 90 95

Ala Ser Lys Ala Val Ala Arg Arg Lys Asn Trp Lys Lys Phe Gly Asn 100 105 110

Ser Glu Phe Asp Pro Pro Gly Pro Asn Val Ala Thr Thr Val Ser

		115					120					125	`		
Asp	Asp	Val	Ser	Met	Thr	Phe 135	Ile	Thr	Ser	Lys	Glu 140	_	Leu	Asn	Cys
Gln 145		Glu	Glu	Asp	Pro 150	Met	Asn	Lys	Leu	Lys 155	Gly	Gln	Lys	Ile	Val 160
Ser	Cys	.Arg	Ile	Cys 165	Lys	Gly	Asp	His	Trp 170	Thr	Thr	Arg	Cys	Pro 175	Tyr
Lys	Asp	Thr	Leu 180	Gly	Pro	Met	Gln	Lys 185	Glu	Leu			190	Leu	Gly
Leu	Ser	Thr 195	Gly	Glu	Lys	Glu	Lys 200	Leu	Pro	Gly		Leu .205	Glu	Pro	Val
Gln	Ala 210	Thr	Gln	Asn	Lys	Thr 215	Gly	Lys	туг	Val	Pro 220	Pro	Ser	Leu	Arg
Asp 225	Gly	Ala	Ser	Arg	Arg 230	Gly	Glu	Ser	Met	Gln 235	Pro	Asn	Arg	Arg	Ala 240
Asp	Asp	Asn	Ala	Thr 245	Ile	Arg	Val	Thr	Asn 250	Leu	Ser	Glu	Asp	Thr 255	Arg
Glu	Thr	Asp	Leu 260	Gln	Glu	Leu	Phe	Arg 265	Pro	Phe	Gly	Ser	Ile 270	Ser	Arg
Ile	Tyr	Leu 275	Ala	Lys	Asp	Lys	Thr 280	Thr	Gly	Gln	Ser	Lys 285	Gly	Phe	Ala
Phe	Ile 290	Ser	Phe	His	Arg	Arg 295	Glu	Asp	Ala	Ala	Arg 300	Ala	Ile	Ala	Gly
Val 305	Ser	Gly	Phe	Gly	Tyr 310	Asp	His	Leu	Ile	Leu 315	Asn	Val	Glu	Trp	Ala 320
Lys	Pro	Ser	Thr	325		٠						-			
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<211	> 35	7	- . ₋					••							
	> PR > Ho		apie	ns	÷		.•			· .			-		
	> 97		•		.1 -			- 1			•				
vaı 1	Arg	v.a. I	ьys	Met 5	Ala	Ala					ASD	Cys	Ile	Met 15	Glu

BNSDOCID: <WO___0055350A1_I_>

230

275

245

	Val	Ser	Cys	Gly 20		Ala	Glu	Ser	Ser 25		Lys	Pro	Asn	Ala 30		Asp
	Met	Thr	Ser 35		Asp	Tyr	Tyr	Phe 40		Ser	туг	Ala	His 45		Gly	Ile
	His	Glu 50	Glu	Met	Leu	Lys	Asp 55	Glu	Val	Arg	Thr	Leu 60	Thr	Tyr	Arg	Asn
	Ser 65	Met	Phe	His	Asn	Arg 70	His	Leu	Phe	Lys	Asp 75		Val	Val	Leu	Asp 80
	Val	Gly	Ser	Gly	Thr 85	Gly	Ile	Leu	Cys	Met 90	Phe	Ala	Ala	Lys	Ala 95	Gly
	Ala	Arg	Lys	Val 100	Ile	Gly	Ile	Glu	Cys 105		Ser	Ile	Ser	Asp 110	туr	Ala
	Val	Lys	11e 115	Val	Lys	Ala	Asn	Lys 120	Leu	Asp	His	Val	Val 125	Thr	Ile	Ile
	Lys	GÌy 130	Lys	Val	Ġlu	Glu	Val 135	Glu	Leu	Pro	Val	Glu 140	Lys	Val	Asp	Ile
	Ile 145	Ile	Ser	Glu	Trp	Met 150	Gly	Tyr	Cys	Leu	Phe 155	Tyr	Glu	Ser	Met	Leu 160
	Asn	Thr	Val	Leu	Tyr 165	Ala	Arg	Asp	Lys	Trp 170	Leu	Ala	Pro		Gly 175	Leu
	Ile	Phe	Pro	Asp 180	Arg	Ala	Thr	Leu	Туг 185	Val	Thr	Ala	Ile	Glu 190	Asp	Arg
	Gln	Tyr	Lys 195	Asp	туг	Lys	Ile	His 200	Trp	Trp	Glu	Asn	Val 205	Tyr	Gly	Phe
	Asp	Met 210	Ser	Cys	Ile	Lys	Asp 215	Val	Ala	Ile	Lys	Glu 220	Pro	Leu	Val	Asp
,	Val	Val	Asp	Pro	Lys	Gln	Leu	Val	Thr.	Asn	Ala	Cys	Leu	Ile	Lys	Glu

Val Asp Ile Tyr Thr Val Lys Val Glu Asp Leu Thr Phe Thr Ser Pro

Phe Cys Leu Gln Val Lys Arg Asn Asp Tyr Val His Ala Leu Val Ala 260 265 270

Tyr Phe Asn Ile Glu Phe Thr Arg Cys His Lys Arg Thr Gly Phe Ser

280

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Thr Ser Pro Glu Ser Pro Tyr Thr His Trp Lys Gln Thr Val Phe Tyr
     290 295
  Met Glu Asp Tyr Leu Thr Val Lys Thr Gly Glu Glu Ile Phe Gly Thr
 305 310 315 320
  Ile Gly Met Arg Pro Asn Ala Lys Asn Asn Arg Asp Leu Asp Phe Thr
     325 330 335
  Ile Asp Leu Asp Phe Lys Gly Gln Leu Cys Glu Leu Ser Cys Ser Thr
  Asp Tyr Arg Met Arg
        355
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<220>
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Gly Val Pro Arg Arg Ala Tyr Gln Ala Xaa Xaa Leu Arg Arg Val Asp
 1 5 10 15
Asp Phe Lys Lys Ala Phe Ser Lys Glu Lys Met Glu Lys Thr Lys Val
        20 25 30
Arg Thr Arg Glu Asn Leu Glu Lys Thr Arg Leu Lys Thr Lys Glu Asn
         35 40 45
Leu Glu Lys Thr Arg His Thr Leu Glu Lys Arg Met Asn Lys Leu Gly
```

 Thr
65
 Arg
10
 Leu
70
 Val
70
 Glu
70
 Arg
80
 Arg
80
 Glu
75
 Leu
105
 Lys
 Thr
100
 Ser
80
 Arg
80

 Asp
 Lys
 Leu
90
 Arg
90
 His
105
 Val
105
 Yal
105
 Pro
105
 Pro
10

<210> 972 <211> 159 <212> PRT

<213> Homo sapiens

<400> 972

Gly Lys Ala Arg Arg Arg Ala Ala Lys Leu Gln Ser Ser Gln Glu Pro 1 5 10 15

Glu Ala Pro Pro Pro Arg Asp Val Ala Leu Leu Gln Gly Arg Ala Asn 20 25 30

Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile 35 40 45

Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val

Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe
65 70 75 80

Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu 85 90 95

Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys

			100)				105	5				110)	
Asp	Ser	Pro	o Lys	: Leu	Gly	Leu	Leu 120		. Val	l Leu	Leu	Ser 125		: Ile	Phe
Met	. Asr	Gly	7 Asn	Ara	Ser	Ser	Glu	LΔla	val	 Tle	·· · Trr	. Glu	v. v. 1	Ta	
	130		, non	. nrg	261	135		. AIC	ı val	LILE	140		val	. Leu	ALÇ
	-								-						
Lys	Leu	Gly	, Leu	Arg	Leu										
145					150					155	I				
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~21	0> 9	72	•												
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	2> P														
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<22	0>			·									*		
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<22	3> X	aa e	qual	s any	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
<40	0> 9	73		. 00					· · · ·						
			Lys												
1				5			-	_	10					15	
			Arg												
		:	: 20·	· ;				25	-	. 2 1 .	1. :	-	30		. 1
Ara	Twe	Mot	50-	S	<i>c</i> 1		21-	T a	71 a	~ 3					
AL Y	БУЗ		Ser			ASII					HIS				Asn
		33					40					.43		**	
Phe	Lys	Ala	Thr	Ala	Val	Met	Pro	Asp	Glv	Gln	Phe	Lvs	Asp	Ile	Ser
	50			,									E		
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		Asp	Tyr	Lys	Gly	Lys							_	Pro	Leu
65			•	1.5	70					75		* .		٠.	. 80
3	Db -	m b		1				-1					_		
Asp	rne	Thr	Phe	85		Pro	Thr	GIU	90 11e						_
				65					90	-			•	95	**
Ala	Glu	Glu	Phe	Lvs	Lvs	Leu	Asn	Cvs	Gln	Val	ıle	Glv	Ala	Ser	Val
			100	-3-				105				1	110		• a I
					:				•	-	•			-	
Asp	Ser	His	Phe	Cyś	His	Leu	Ala	Trp	Val	Asn	Thr	Pro	Lys	Lys	Gln
		115		· ·	.:										
		_	_				_								
			Gly									Asp	Pro	Lys	Arg
	130	-				135		*	1.0		140				

Thr Ile Ala Gln Asp Tyr Gly Val Leu Lys Ala Asp Glu Gly Ile Ser 155 Phe Arg Gly Leu Phe Ile Ile Asp Asp Lys Gly Ile Leu Arg Gln Ile 170 Thr Val Asn Asp Leu Pro Val Gly Arg Ser Val Asp Glu Thr Leu Arg 180 185 Leu Val Gln Ala Phe Gln Phe Thr Asp Lys His Gly Glu Val Cys Pro 200 Ala Gly Trp Lys Pro Gly Ser Asp Thr Ile Lys Pro Asp Val Gln Lys 215 Ser Lys Glu Tyr Phe Ser Lys Gln Lys 230 <210> 974 <211> 174 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (37) <223> Xaa equals any of the naturally occurring L-amino acids <400> 974 Ser Trp Asp Arg Arg Leu Met Gln Asp Asp Asn Arg Gly Leu Gly Gln Gly Leu Lys Asp Asn Lys Arg Thr Cys Asn Arg Phe Arg Leu Leu Leu 20 25 Glu Arg Arg Thr Xaa Gly Ser Glu Val Gln Asp Ser His Ser Thr Ser

Leu Asn Leu Arg Thr Leu Gln Ala Glu Glu Asp Thr Leu Pro Ser Ala 100 105 110

Tyr Pro Ser Leu Leu Ser His Leu Thr Ser Met Tyr Leu Asn Ala Pro

Ala Leu Ala Leu Pro Val Ala Arg Met Gln Leu Pro Gly Pro Gly Leu

Arg Ser Phe His Pro Leu Ala Ser Ser Leu Pro Cys Asp Phe His Leu

90

55

70

Glu	Thr	Ala 115		Ile	Leu	His	Arg 120	Lys	Val	Leu	Thr	Ala 125		Trp	Arg
Gln	Glu 130	Leu			Gln	Leu 135	His	His	Lys	Pro	Arg 140	Gln	Gly	Ser	Pro
Gly 145	Gln	Pro			_		_	Cys	-				Ala		
Leu	Asp	Val						Leu :					His		-
			-	- '.	· · · · · · ·			٠.			٠			<u>: : :</u>	
<21	0> 9° 1> 3° 2> PI	80			•			1.2		2					
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<22	0> 1> s: 2> (:	ITE					-			~ .					
	3>. Xa		qual	s any	y of	the	nati	ıral	ly o	ccur	ring	L-ai	mino.	acio	is:
	0> 91 .Pro		Val	Arg 5	His	Ser	Arg.	Glu	Ala 10	Pro	Glu	Ser	Arg	Arg 15	Trp.
Ala	Val	Trp	Arg 20.		Leu	Glu	Ser	Leu 25		Arg	His:	Gln	Leu		Cys
Leu	Pro	Val 35	Gly	Ala.	Pro	Pro	Ala 40	Pro.	Ala	Met	Leu	Ser 45	Ala	Leu	Ala
Arg	Pro 50	Ala	Ser	Ala	Ala ·	Leu 55	Arg.	Arg	Ser	Phe	Ser 60	Thr	Ser	Ala	Gl'n
Asn 65	Asn	Ala	Lys	Val	Ala 70	Val	Leu	Gly	Ala [.]	Ser 75	Gly	Gly.	Ile:	Gly	Gln 80
Pro	Leu	Ser	Leu.	Leu 85	Leu	Lys	Asn	Ser.	Pro 90	Leu	Val.	Ser:	Arg.	Leu 95	Thr:
Leu	Tyr	Asp	Ile 100	Ala	His:	Thr	Pro	Gly 105		Ala	Ala	Asp:	Leu 110	Ser.	His
Ile	Glu-	Thr 115	Lys	Ala	Ala	Val	Lys 120	Gly	Tyr	Leu	Gly	Pro 125	Glu.	Gln	Leu
Pro	Asp:	Cys:	Leu	Lys	Xaa	Cys	Asp	Val	Val	Val	Ile	Pro	Ala:	Gly	Val

	130					135					140	ı			
Pro 145		Lys	Pro	Gly	Met 150		Arg	Asp	Asp	Leu 155		Asn	Thr	Asn	Ala 160
Thr	Ile	Val	Ala	Thr 165		Thr	Ala	Ala	Cys 170		Gln	His	Cys	Pro 175	
Ala	Met	Ile	Cys 180		Ile	Ala	Asn	Pro 185		Asn	Ser	Thr	Ile 190	Pro	Ile
Thr	Ala	Glu 195	Val	Phe	Lys	Lys	His 200	Gly	Val	Tyr	Asn	Pro 205		Lys	Ile
Phe	Gly 210		Thr	Thr	Leu	Asp 215	Ile	Val	Arg	Ala	Asn 220		Phe	Val	Ala
Glu 225	Leu	Lys	Gly	Leu	Asp 230	Pro	Ala	Arg	Val	Asn 235	Val	Pro	Val	Ile	Gly 240
Gly	His	Ala	Gly	Lys 245	Thr	Ile	Ile	Pro	Leu 250	Ile	Ser	Gln	Cys	Thr 255	Pro
Lys	Val	Asp	Phe 260	Pro	Gln	Asp	Gln	Leu 265	Thr	Ala	Leu	Thr	Gly 270	Arg	Ile
Gln	Glu	Ala 275	Gly	Thr	Glu	Val	Val 280	Lys	Ala	Lys	Ala	Gly 285	Ala	Gly	Ser
	290					295	Ala				300				
305			,		310		Glu			315					320
				325			Thr		330	. •				335	
			340				Asn	345					350		
		355					360				·.	Leu 365	Lys	Ala	Ser
ııe	Lys 370	Lys	Gly	Glu	Asp	Phe 375	Val	Lys	Thr	Leu	180				

<210> 976 <211> 269

	2> F 3> F	RT	sapi	ens.											
<40	0> 9	76													
Ala 1		Leu	Ser		Ile							Ala	Val	Lys 15	
Thr	Ile	Ser	Asn 20		Ser	Gly	Phe	Asn 25		Thr	Cys	Leu	Arg 30	_	Arg
Ser	Ile	Lys 35	Thr	Ala	Asp	Met	Glu 40	Glu	Met	Туг	Leu	Phe 45	His	Ile	Trp
Gly	Gln 50		Trp			55					60		Thr		
Ile 65		•									Leu		Leu	Arg	
Gly	Thr	Asn	Tyr	Asn 85	Val	Ser	Leu	Arg	Ala 90	Leu	Ser	Ser	Glu	Leu 95	Pro
Val	Val	Ile	Ser 100		Thr								Leu 110		Glu
Val	Glu	Phe 115											Leu		
Arg	Lys 130	Ala	Lys	Glu	Lys	Asn 135	Gly	Pro	Ile	Ser	Ser 140	туг	Gln	Val	Leu :
Val 145	Leu	Pro	Leu	Ala	Leu 150-	Gln	Ser	Thr	Phe	Ser 155	Cys	Asp	Ser	Glu	Gly 160
Ala		Ser											Tyr		
Ala	Glu		Leu 180	Ala	Lys	Asp				Asp			Glu 190		Pro
Ile					Tyr					Tyr			Pro 	Leu	Lys
Arg	Gly 210	Ser			Cys					Ile			Glu	Trp	Asn
Lys 225		Arg	Arg _	His	Ser 230	Cys	Ala	Val ⁻	Trp	Ala 235	Gln	Val	Lys	Asp	Ser 240
Ser	Leu	Met		Leu 245	Gln	Met	Ala		Val 250	Gly	Leu	Gly	Ser	Leu 255	Ala

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Val Val Ile Ile Leu Thr Phe Leu Ser Phe Ser Ala Val
260 265
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Leu Phe Ser Pro Gln Val Glu Leu Thr Lys Ala Met Val Met Glu Lys
Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val Arg Gln Tyr Tyr Thr
                                 25
Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg Phe Tyr Gly Lys Asn
         35
Ser Ser Tyr Val His Gly Gly Leu Asp Ser Asn Gly Lys Pro Ala Asp
Ala Val Tyr Gly Gln Lys Glu Ile His Arg Lys Val Met Ser Gln Asn
 65
                     70
                                         75
Phe Thr Asn Cys His Thr Lys Ile Arg His Val Asp Ala His Ala Thr
                                    90
Leu Asn Asp Gly Val Val Val Gln Val Met Gly Leu Leu Ser Asn Asn
           100
                               105
Asn Gln Ala Leu Arg Arg Phe Met Gln Thr Phe Val Leu Ala Pro Glu
        115
Gly Ser Val Ala Asn Lys Phe Tyr Val His Asn Asp Ile Phe Arg Tyr
Gln Asp Glu Val Phe Gly Gly Phe Val Thr Glu Pro Gln Glu Glu Ser
                   150
                                       155
```

Glu	ı Glu	Glu	ı Val	. Glu 165		Pro	o Glu	Gli	1 Arg		ı Glr	Thi	r Pro	0 Glu 175	ı Val
Val	. Pro	Asp	180		Gly	Thi	Phe	185		Glr	n Ala	(Va)	l Val		Asn
Asp	Met	. Glu		His	Leu	Glu	Glu 200		Val	. Ala	Glu	205		Pro	Asp
Pro	Glu 210		Glu	Pro	Glu	Gln 215		Pro	Val	. Ser	Glu 220		Gln	Glu	Glu
Lys 225		Glu	Pro	Val	Leu 230		Glu	Thr	Ala	235		Asp	Ala	. Gln	Lys 240
Ser	Ser	Ser	Pro	Ala 245		Ala	Asp	Ile	Ala 250		Thr	Val	Gln	Glu 255	Asp
Leu	Arg	Thr	Phe 260		Trp	Ala	Ser	Val 265		Ser	Lys	Asn	Leu 270		Pro
Ser	Gly	Ala 275	Val	Pro	Val	Thr	Gly 280		Pro	Pro	His	Val 285	Val	Lys	Val
Pro	Ala 290	Ser	Gln	Pro	Arg	Pro 295	Glu	Ser	Lys	Pro	Glu 300	Ser	Gln	Ile	Pro
Pro 305	Gln	Arg	Pro	Gln	Arg 310	Asp	Gln	Arg	Val	Arg 315	Glu	Gln	Arg	Ile	Asn 320
Ile	Pro	Pro	Gln	Arg 325	Gly	Pro	Arg	Pro	Ile 330	Arg	Glu	Ala	Gly	Glu 335	Gln
Gly	Asp	Ile	Glu 340		Arg	Arg	Met	Val 345	Arg	His	Pro	Asp	Ser 350	His	Gln
Leu	Phe	Ile 355	Gly	Asn	Leu	Pro	His 360	Glu	Val	Asp	Lys	Ser 365	Glu	Leu	Lys
Asp	Phe 370	Phe	Gln		Tyr	Gly 375	Asn	Val	Val	Glu	Leu 380	Arg	Ile	Asn	Ser
Gly 385	Gly	Lys	Leu				Gly			Val 395	Phe	Asp	Asp	Ser	Glu 400
	Val	Gln	Lys	405	Leu	Ser	Asn	Arg	Pro 410	Ile			Arg	Gly 415	Glu
Val	Arg	Leu	Asn 420				Lys			Arg		Ala	Arg 430	Glu	Gly

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Asp Arg Arg Asp Asn Arg Leu Arg Gly Pro Gly Gly Pro Arg Gly Gly
Leu Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met Val Gln Lys
    450
                        455
Pro Gly Phe Gly Val Gly Xaa Gly Xaa Ala Pro Arg Gln
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Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
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Gly Arg Gly Met Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
            20
                             . 25
Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
                            40
Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Asn Lys
    50
                        55
```

Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg

65					70	ı				75	•				80
Asn	Val	Gly	Leu	Cys 85		-Ala	Ile	· Val	. Gln 90		Thr	Arg	Thr	Phe 95	
Pro	Ser	Lys	Pro 100		Lys	Ser	Leu	His 105		Gln	Lys	Asn	Arg		Phe
Phe	Asn	- Glu 115		Glu	Glu	Asn	Phe 120		Met	-Val	Met	Val 125		Arg	'Xaa
Pro	Ile 130		Glu	-Lys	Gln	"Ser 135	Lys	: Asp	∵Gly	Lys	Pro 140		Ile	Glu	-Tyr
145					150		Lys			155	7				160
				165			Phe		170					175	
			180				`Lėu	185					190		
		195					His 200					205	•		_
	210					215	Phe				220	•			
225				•	230		'Arg			235					240
				245			Asn		250					255	
			260				Leu-	265					270		
		275°					Glu 280					285			
	290					295	Leu				300				
305					310		Pro			315		•			320
		Xaa.		325.			Thr	ryr	330	GIU	rea .	n1S.		11e 335	хаа
- z	-12 o														

<210> 979 °

	1> 2 2> P														
			sapi	ens											
			•	•											
	0> 9 Arg		Arg	Arg		Gly	Leu	Arg	Cys		. Arg	Arg	Thr	Ser 15	
Ala	Ala	Gly	Ser	Gly	Ala	Gly	Pro	Pro 25		Pro	Leu	Gln	Gly 30		Sei
Gly	Ser	Ser 35		Ala	Pro	Arg	Pro 40		Arg	Arg	Thr	Glu 45		Arg	Arc
Lys	Gly 50	Ala	Gly	Gly	Thr	Arg 55		Arg	Pro	Ala	Ala 60	Ala	Met	.Asn	Ser
Asn 65	Val	Glu	Asn	Leu	Pro 70	Pro	His	Ile	Ile	Arg 75	Leu	Val	Tyr	Lys	Glu 80
Val	Thr	Thr	Leu	Thr 85	Ala	Asp	Pro	Pro	Asp 90	Gly	Ile	Lys	Val	Phe 95	Pro
Asn	Glu	Glu	Asp 100	Leu	Thr	Asp	Leu	Gln 105	Val	Thr	Ile	Glu	Gly 110	Pro	Glu
Gly	Thr	Pro 115	Tyr	Ala	Gly	Gly	Leu 120	Phe	Arg	Met	Lys	Leu 125	Leu	Leu	Gly
Lys	Asp 130	Phe	Pro	Ala	Ser	Pro 135	Pro	Lys	Gly	Tyr	Phe 140	Leu	Thr	Lys	Ile
Phe 145	His	Pro	Asn	Val	Gly 150	Ala	Asn	Gly	Glu	Ile 155	Суз	Val	Asn	Val	Léu 160
Lys	Arg	Asp	Trp	Thr 165	Ala	Glu	Leu	Gly	Ile 170	Arg	His	Val	Leu	Leu 175	Thr
Ile	Lys	Cys	Leu 180		Ile	His	Pro	Asn 185	Pro	Glu	Ser	Ala	Leu 190	Asn	Glu
Glu	Ala	Gly 195	Arg	Leu	Leu	Leu	Glu 200	Asn	Tyr	Glu	Glu	Туг 205	Ala	Ala	Arg
Ala	Arg 210	Leu	Leu	Thr	Glu	Ile 215	His	Gly	Gly	Ala	Gly 220	Gly	Pro	Ser	Gly

Arg 225		Glu	Ala	Gly	Arg 230		Leu	Ala	Ser	Gly 235		Glu	Ala	Ser	Ser 240
Thr	Asp	Pro		Ala -245	Pro	Gly	Gly	Pro	Gly 250		Ala	Glu	Gly	Pro 255	Met
Ala	Lys	Lys	His 260	Ala	Gly	Glu	Arg	Asp 265	Lys	Lys	Leu	Ala	Ala 270	Lys	Lys
Lys	Thr	Asp 275	Lys		Arg							2			
					· . :	· · .			. ; <u>.</u> -		• =			- 1	
<21	0> 9 1> 3 2> P	53		~		·	73	ī :	3lu	; a			j		Zn s
				ens				···· (: •					سي ساره	
<22 <22	1> s 2> (ITE 333)													:
<22		aa e	qual	s an	y o£	the	nati	ural	ly o	ccur:	ring	L-aı	mino	acio	is .
<222	2> (346)								a V					·'
-	3> X	2	qua L	s any	y of					ccuri					
Arg		Gln	Cys	Gln - 5	Asp	Ser	Lys	Asp	Ser 10	Asn : :	His	Leu	Pro	Lys 15	Met
Ser	Leu	Ser	Ala 20	Phe	Thr	Leu	Phe	Leu - 25	Ala	Leu	Ile	Gly	Gly 30	Thr	Ser
Gly	Gln	Tyr	Tyr	Asp	Tyr	Asp	Phe 40	Pro	Leu	Ser	Ile	Tyr 45	Gly	Gln	Ser
Ser	Pro 50	Asn	Cys	Ala	Pro	Glu 55	Cys	Asn	Cys	Pro	Glu 60	Ser	Tyr	Pro	Ser
Ala 65	Met	туг	Cys	Asp	Glu 70	Leu	Lys	Leu	Lys	Ser 75	Val	Pro	Met.	Val	Pro 80
Pro	Gly	Ile	Lýs	Tyr 85	Leu	Tyr	Leu	Arg	Asn 90	Asn	Gln	Ile	Asp	His 95	Ile
Asp	Glü		Ala 100	Phe	Glu	Asn		Thr		Leu	Gln		Leu 110	Ile	Leu

Asp	His	Asn 115	Leu	Leu	Glu	Asn	Ser 120	Lys	Ile	Lys	Gly	Arg 125	Val	Phe	Ser
Lys	Leu 130	Lys	Gln	Leu	Lys	Lys 135	Leu	His	Ile	Asn	His 140	Asn	Asn	Leu	Thr
Glu 145	Ser	Val	Gly	Pro	Leu 150	Pro	Lys	Ser	Leu	Glu 155	Asp	Leu	Gln	Leu	Thr 160
His	Asn	Lys	Ile	Thr 165	Lys	Leu	Gly	Ser	Phe 170	Glu	Gľy	Leu	Val	Asn 175	Leu
Thr	Phe	Ile	His 180	Leu	Gln	His	Asn	Arg 185	Leu	Lys	Glü	Asp	Ala 190	Val	Ser
Ala	Ala	Phe 195	Lys	Gly	Leu	Lys	Ser 200	Leu	Glu	туг	Leu-	Asp 205	Leu	Ser	Phe
Asn	Gln 210	Ile	Ala	Arg	Leu	Pro 215	Ser	Gly	Leu	Pro	Val 220	Ser	Leu	Leu	Thr
Leu 225	Tyr	Leu	Asp	Asn	Asn 230	Lys	Ile	Ser	Asn	11e 235	Pro	Asp	Glu	Tyr	Phe 240
Lys	Arg	Phe	Asn	Ala 245	Leu	Gln	Tyr	Leu	Arg 250	Leu	Ser	His	Asn	Glu 255	Leu
Ala	Asp	Ser	Gly 260	Ile	Pro	Gly	Asn	Ser 265	Phe	Asn	Val	Ser	Ser 270	Leu	Val
Glu	Leu	Asp 275	Leu	Ser	Tyr	Asn	Lys 280	Leu	Lys	Asn	Ile	Pro 285	Thr	Val	Asn
Glu	Asn 290	Leu	Glu	Asn	Tyr	Tyr 295	Leu	Glu	Vål	Asn	Gln 300	Leu	Glu	Lys	Phe
Asp 305	Ile	Lys	Ser	Phe	Cys 310	Lys	Ile	Leu	Gly	Pro 315	Leu	Ser	Tyr	Ser	Lys 320
Ile	Lys	His	Leu	Arg 325	Leu	Asp	Gly	Asn	Arg 330	Ile	Ser	Xaa	Thr	Ser 335	Leu
Pro	Pro	Asp	Met 340	Ţyr	Glu	Cys	Leu	Arg 345	Xaa	Ala	Asn	Glu	Val 350	Thr	Leu

Asn

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<212> PRT
<213> Homo sapiens
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Gln Tyr Gln Leu Arg Gln Thr Asn Gln Pro Leu Asp Val Asn Tyr Leu
Leu Phe Leu Ile Ile Leu Gly Lys Ile Leu Leu Asn Ile Leu Thr Leu
         35 -
                             40
                                                45
Gly Met Arg Arg Lys Asn Thr Cys Gln Asn Phe Met Glu Tyr Phe Cys
                        55
Ile Ser Leu Ala Phe Val Asp Leu Leu Leu Val Asn Ile Ser Ile
                    70 .
                                        75
Ile Leu Tyr Phe Arg Asp Phe Val Leu Leu Ser Ile Arg Phe Thr Lys
Tyr His Ile Cys Leu Phe Thr Gln Ile Ile Ser Phe Thr Tyr Gly Phe
                               105
Leu His Tyr Pro Val Phe Leu Thr Ala Cys Ile Asp Tyr Cys Leu Asn
        115
                            120
                                                125
Phe Ser Lys Thr Thr Lys Leu Ser Phe Lys Cys Gln Lys Leu Phe Tyr
                        135
Phe Phe Thr Val Ile Leu Ile Trp Ile Ser Val Leu Ala Tyr Val Leu
Gly Asp Pro Ala Ile Tyr Gln Ser Leu Lys Ala Gln Asn Ala Tyr Ser
                        . 170
             165
Arg His Cys Pro Phe Tyr Val Ser Ile Gln Ser Tyr Trp Leu Ser Phe
                               185
Phe Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu
        195
                            200
Val Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu
```

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210
                         215
                                             220
 Thr Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg
 225
                     230
                                        235
Ser Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr
                 245
                                     250
Trp Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val
             260
                                 265
                                                     270
Gln Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val
                             280
Asn Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu
                        295
Asn Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys
305
                    310
                                         315
Cys Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys
                325.
                                     330
Pro Ile Ser Ile Met Ile Xaa
            340
<210> 982
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<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (114)
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<220>
<221> SITE
<222> (121)
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<221> SITE
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<221> SITE
<223> Xaa equals any of the naturally occurring L-amino acids
<221> SITE
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10 15
His Arg Pro Ser Pro Pro Ser Leu Leu Pro Ala Pro Cys Lys Pro Leu
                    25 30
      20
Arg Leu Gly Leu Ala Thr Val Pro Ala Gly Ser Pro Gly Leu Gly Val
Gly Asp Ser Leu Gln Ala Arg Ser Pro Glu Thr Ser Glu Gly His Pro
   50
                  5.5
Leu Arg Val Ala Arg Pro Pro Val Ala Asn Leu Ser Ala Ala Ser Ala
Thr Ser Pro Ala Gly Pro Trp Phe Arg Trp Pro Pro Arg Cys Leu Ala
Glu Thr Arg His Gly Pro Ser Ala Gly Pro His Xaa Phe Pro Xaa Pro
                      105 110
        100
Gly Xaa Trp His Cys Ser Arg Gln Xaa Xaa Gly His Gln Xaa Xaa Asn
                    120
Arg Thr Gln Xaa Pro Ala Gln Thr Ala Ala Gly Met Gly Ala
  130
                 135
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<211> 193
<212> PRT
<213> Homo sapiens
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<220>
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<220>
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Val Asn Phe Lys Ala Phe Glu Met Gly Lys Asp Tyr Tyr Cys Ile Leu
Gly Ile Glu Lys Gly Ala Ser Asp Glu Asp Ile Lys Lys Ala Tyr Arg
                                25
Lys Gln Ala Leu Lys Phe His Pro Asp Lys Asn Lys Ser Pro Gln Ala
         35
                            40
Glu Glu Lys Phe Lys Glu Val Ala Glu Ala Tyr Glu Val Leu Ser Asp
                        55
Pro Lys Lys Arg Glu Ile Tyr Xaa Gln Phe Gly Glu Glu Gly Leu Lys
                                         75
Gly Gly Ala Gly Gly Thr Asp Gly Gln Gly Gly Thr Phe Arg Tyr Thr
Phe His Gly Asp Pro His Ala Thr Phe Ala Ala Phe Phe Gly Gly Ser
                              105
Asn Pro Phe Glu Ile Phe Phe Gly Arg Arg Met Gly Gly Arg Asp
                        . 120
       115
                                                125
Ser Glu Glu Met Glu Ile Xaa Gly Asp Pro Xaa Ser Ala Phe Gly Phe
                        135
Ser Met Asn Gly Tyr Pro Arg Asp Arg Asn Ser Val Gly Pro Ser Arg
```

Leu	Lys	Glr	Asp	165			Ile	His	Glu 170		Arg	Val	Ser	Leu 175	Glu
Glu	Ile	Э Туг	Ser 180	Gly		Thr	Lys	Arg 185		Glu	Arg	Phe	Leu 190		Lys
Gly			•	· ·					ž						
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												-*	•		
<21	0> 9	84 -		ε :.	v		:-								
	1> 4														
	2> P						6.4								
<21	3> H	omo-	sapi	èns		٠		: **				•			- ' :
<40	0> 9	84									-				
			GĪu	Met	Glu	Leu	Glü	Glü	Glv	Lvs	Ala	Glv	. Sèr	GIV	Leu
1	•	•		5					10			1		15	Dog
				•							•				
Arg.	Gln	Туг	Tyr 20		Ser	Lys	Ile	Glu 25	Glu-	· Leu	Gl n	Leu	Ile 30	Val	Asn
Asp	Lys	Ser 35	Gln	Asn	Leu	Arg	Arg 40	Leu	Gln	Ala	Gln	Arg 45	Asn	Glu	Leu
Asn	Ala	Lys	Val	Arg	Leu.	Leu	Arg	Glu	Glu	Leu	Gln	Leu	Leu	Gln	Glu
	50					55					60				-
Gln 65	Gly	ser	·Tyr	Val	Gly: 70		Val	Val-	Arg	Ala 75		Asp	Lys	Lys	Lys 80
Val-	Leu	Val	Lys	Val: 85	His	Pro	Glu	Gly	Lys 90	Phe	Val	Val ⁻	Asp	Val 95	Asp
Lys	Asn	Ile	Asp.	Ile	Asn	Asp	Val	Thr 105	Pro-	Asn	Cys	Arg	Val 110		Leu -
Arg	Asn	Asp 115			Thr							Asn 125		Val	Asp
Pro	Leu 130	Val	Ser	Leu	Met	Met 135	Val	Glu	Lýs	Val	Pro 140	Asp.	Ser	Thr	Tyr
Glu 145	Met	Ile	Gly	Gly	Leu 150	Asp	Lys	Gln	Ile	Lys 155	Glu	Ile	Lys	Glu	Val 160
Ile [.]	Glu	Leu	Pro	Val		His	Pro		Leu 170		Glu-	Ala		Gly	Ile

Ala	Gln	Pro	Lys 180	Gly	Val	Leu	Leu	Tyr 185		Pro	Pro	Gly	Thr 190	Gly	Lys
Thr		Leu 195	Ala	Arg	Ala	Val	Ala 200	His	His	Thr	Asp	Cys 205		Phe	Ile
Arg	Val 210	Ser	Gly	Ser	Glu	Leu 215	Val	Gln	Lys	Phe	11e 220	Gly	Glu	Gly	Ala
Arg 225	Met	Val	Arg	Glu	Leu 230	Phe	Val	Met	Ala	Arg 235	Glu	His	Ala	Pro	Ser 240
Ile	Ile	Phe	Met	Asp 245	Glu	Ile	Asp	Ser	11e 250	Gly	Ser	Ser	Arg	Leu 255	Glu
Gly	Gly	Ser	Gly 260	Gly	Asp	Ser	Glu	Val 265	Gln	Arg	Thr	Met	Leu 270	Glu	Leu
Leu	Asn	Gln 275	Leu	Asp	Gly	Phe	Glu 280	Ala	Thr	Lys	Asn	Ile 285	Lys	Val	Ile
Met	Ala 290	Thr	Asn	Arg	Ile	Asp 295	Ile	Leu	Asp	Ser	Ala 300	Leu	Leu	Arg	Pro
Gly 305	Arg	Ile	Asp	Arg	Lys 310	Ile	Glu	Phe	Pro	Pro 315	Pro	Asn	Glu-	Glu	Ala 320
Arg	Leu	Asp	Ile	Leu 325	Lys	Ile	His	Ser	Arg 330	Lys	Met	Asn	Leu	Thr 335	Arg
Gly	Ile	Asn	Leu 340	Arg	Lys	Ile	Ala	Glu 345	Leu	Met	Pro	Gly	Ala 350	Ser	Gly
Ala	Glu	Val 355	Lys	Gly	Val	Cys	Thr 360	Glu	Ala	Gly	Met	T yr 365	Ala	Leu	Arg
Glu	Arg 370	Arg	Val	His	Val	Thr 375	Gln	Glu	Asp	Phe	Glu 380	Met	Ala	Val	Ala
Lys .385	Val	Met	Gln	Lys	Asp 390	Ser	Glu	Lys	Asn	Met 395		Ile	Lys	Lys	Leu 400

<210> 985

Trp Lys

<211> 347

<212> PRT

<213> Homo sapiens

< 40	0> 9	85													
Arg 1	Arg	Arg	Arg	Trp 5		Pro	Gly	Pro	Gly 10		Pro	Arg	Arg	Thr 15	
Gly	Lys	Gly	Pro 20	Arg	Lys	Val	Ala	Ser 25		Ser	Ala	Ala	Ala 30		Thr
Leu	Ser	Glu 35	Pro	Pro	Arg	Arg	Thr		Glu	Ser	Arg	Thr 45		Thr	Arc
Ala	Leu 50	Gly	Leu	Pro	Thr	Leu 55	Pro	Met	Glu	Lys	60		Ala		Thr
Glu 65	Pro	Gln	Gly	Pro	Arg 70	Pro	Val	Leu	Gly	Arg 75	Glu	Ser			Va 1 80
Pro	Asp	Asp	Gln	Asp 85	Phe	Arg	Ser	Phe	Arg	Ser	Glu	Суs		Ala 95	Glu
Val	Gly	тrр	Asn 100	Leu	Thr	Tyr	Ser	Arg 105	Ala	Gly	Val	Ser	Val	Trp	Val
Gln	Ala	Val 115	Glu	Met	Asp	Arg	Thr 120	Leu	His	Lys	Ile	Lys 125	Cys	Arg	Met
Glu	Cys 130	Cys	Asp	Val	Pro	Ala 135	Glu	Thr	Leu	Tyr	Asp	Val	Leu	His	Asp
Ile 145	Glu	туг	Arg	Lys :	Lys 150	Trp	Asp	Ser	Asn	Val 155	Ile	Glu	Thir	Phe	Asp 160
Ile	Ala	Arg	Leu	Thr 165	Val	Asn	Ala	Asp	Val 170	Gly	Tyr	Tyr	Ser	Trp 175	Arg
Cys	Pro	Lys	Pro 180	Leu	Lys	Asn	Arg	Asp 185	Val	Ile	Thr	Leu	Arg 190	Ser	Trp
Leu	Pro	Met 195	Gly	Ala	Asp	Tyr	11e 200	Ile	Met	Asn	Tyr	Ser 205	Val	Lys	His
Pro	Lys 210	Tyr	Pro	Pro	Arg	Lys 215	Asp	Leu	Val	Arg	Ala 220		Ser	Ile	Gln
Thr 225	Gly	Tyr	Leu	Ile	Gln 230	Ser	Thr'	Gly-	Pro	Lys 235	Ser	Cys	Val	Ile	Thr 240
ryr	Leu	Alà	Gln	Val 245	Asp	Pro	Lys	Gly	Ser 250	Leu	Pro	Lys	Trp	Val 255	Val
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Lys	Ala	Cys 275		Lys	Tyr	Pro	Glu 280	_	Lys	Gln	Lys	His 285		.Pro	His
Phe	Lys 290	Pro	Trp	Leu	His	Pro 295		Gln	Ser	Pro	Leu 300		Ser	Leu	Ala
Leu 305	Ser	Glu	Leu	Ser	Val 310	Gln	His	Ala	Asp	Ser 315	Leu	Glu	Asn	Ile	Asp 320
Glu	Ser	Ala	Val	Ala 325		Ser	Arg	Glu	Glu 330	-	Met	Gly	Gly	Ala 335	-
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1				5					10					15	
Ser	Asn	Arg	Gln 20	Arg	Cys	Leu	Gly	Ser 25	Lys	His	Thr	Glu	Arg 30	Thr	Trp
Thr	Ala	Trp 35	Xaa	Arg	Ser	Leu	Ile 40	Arg	Pro	Phe	Ser	Met 45	His	Ile	Leu
Pro	Lys 50	Gln	Ser	Gln	Ile	Pro 55	Leu	Lys	Gly	Ala	Asp 60	Ser	Ile	Ser	Ser
Ser 65	Val	Gln	Thr	Leu	Arg 70	Ala	Glu	Arg	Ser	Gly 75	Ser	Gly	Ser	His	Val 80
Chr	Ala	Gln	Asn	Asn 85	Leu	Arg	Asn	Pro	Leu 90	Cys	Pro	Glu	Gly	Ser 95	Leu
hr	Ser	Pro	Ser 100	Gly	Ser	Glu	Gln	Ser	Leu						

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		Arg	Lys	Lys	Ser	Tyr	Thr	Ser	Lys	Lys	Ser	Ser	Lys	Gln	Ser
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145										155				_	160
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<213> Homo sapiens

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		Gln	Asp	Pro	Val	Pro	Glu	Gln	Glu	ı Met	Ser	Pro	Ser	Ile	Ser
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Cys										Thr			Lys		Lys
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	Phe		Leu		Ala	Gly	Ser	Ala		Leu	Lys	Pro	Ser		Asp
				165			•		170					175	
Phe	Leu	Thr	Gln	Asp	Pro	Ala	Pro	Gly	Arq	Arg	Arq	Val	Glv	Ala	Glv
			180					185			•		190		1
Leu	Val	Gly	Gln	Lys	Glu	Ala	Ser	Ala	Gly	Leu	Glu	Asp	Pro	Ser	ser
Thr	Ser	His	Ser	Val	Ser	Ser	Ser	Tro	Glu	Asn	Leu	Cvs	G) n	Ala	Ara
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Δla	Va 1	Tle	Glv	Pro	Hig	Glu	Va l	Ser	Glu	Δla	Pro	Sar	Tro		

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Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu Pro Lys

90

Val	Leu	Asp	Pro 100		Glu	Asp	Leu	Leu 105		Ile	Ala	Lys	Thr 110		Ser
Tyr	Leu	Arg	Glu	Ser	Gly	Trp	Tyr	Trp	Gly	Ser	Ile	Thr	Ala	Ser	Glu
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Ala	Arg	Gln	His	Leu	Gln	Lys	Met	Pro	Glu	Gly	Thr	Phe	Leu	Val	Arg
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Asp	Ser	Thr	His	Pro	Ser	Tyr	Leu	Phe	Thr	Leu	Ser	Val	Lys	Thr	Thr
145	* * ;=	. 11 17.		5.	150	I:	÷ ;	31.:	÷.	155		: 	2.3.2	-14 () -2 (2	160
Arg	_		Thr			_			-		_				-
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Leu	Asp	Ser	Asn	Cys	Leu	Ser	Arg	Pro	Arg	Ile	Leu	Ala	Phe	Pro	Asp
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			Val		Ile							Leu	Val	Ser	Phe
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Ser	Сув	Ile	Gly	Phe	His	Cys	Ile	Tyr	Ser				Leu	Asn	Leu

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Phe Ser Arg Gly Gly Gly Asp Arg Gly Tyr Gly Gly Asn Arg Phe Glu

150

Ser Arg Ser Gly Gly Tyr Gly Gly Ser Arg Asp Tyr Tyr Ser Ser Arg 165 Ser Gln Ser Gly Gly Tyr Ser Asp Arg Ser Ser Gly Gly Ser Tyr Arg 1.85 Asp Ser Tyr Asp Ser Tyr Ala Thr His Asn Glu 200 <21.0> 993 <211> 252 <212> PRT-<213> Homo sapiens <400> 993 Gly Cly Leu Ala Trp Arg Ala Leu Arg Thr Ser Gly Thr Leu Leu Arg Carlotte Committee Carlotte Carlotte Carlotte Committee Carlotte Val Glu Arg Leu Leu Glu Asp Tyr Cys Pro Glu Glu Lys Met Phe . Para dia na mangangkan kabangan pangkan kanangan kanangan kanangan kanangan kanangan kanangan kanangan kananga Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile 40 Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr 55 Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly Asp Ile Cys Asn Ala Cys Val Leu Leu Val Lys Arg Trp Lys Lys Leu Pro Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala 105 100 Gly Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu 120 Ser Gly Asn Arg Ile Lys Ser Asn Gln Ile Ser Lys Leu Gln Lys Glu 130 135 The state of the s Phe Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ser Ala Ser 150 155 Pro Ala Gln Ser Pro Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp

175

Thr Glu Met Ala Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu

			180					185					190		
Asp	Leu	Thr 195		Trp	Lys	Arg	Gln 200	Lys	Ile	Cys	Cys	Gly 205		Ile	Tyr
Lys	Gly 210	Arg	Phe	Gly	Glu	Val 215	Leu	Ile	Asp	Thr	His 220	Leu	Phe	Lys	Pro
Cys 225	Cys	Ser	Asn		Lys 230	Ala	Ala	Ala	Glu	Lys 235		Glu	Glu	Gln	Gly 240
Gln	Ser	Leu	Cys	Pro 245	Ser	Pro	Leu	Arg	Ser 250	-	Asp		-		
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Arg	Thr	Arg	Gly	Xaa	Asp	Thr	Gln	Pro	Thr	Val	Cys	Thr	Asp	Ala	Pro
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ser	Leu	Leu		Leu	Ser	Arg	Leu		Leu	Arg	Gly	Ser		Asp	Arg
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Ara	Sar	Val	A 1 =	N c n	Mat	Cln	Leu	Bho	Wa I	N = 0	λl =	ď1n	C1	T 011	uia
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Thr	Phe	Glu	Val	Thr	Glv	Gln	Glu	Thr	Val	Ala	Gln	Ile	Lvs	Ala	His
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Val	Ala	Ser	Leu	Glu	Gly	Ile	Ala	Pro	Glu	Asp	Gln	Val	Val	Leu	Leu
65	•				70					75		٠			80
Ala	Gly	Ala	Pro	Leu	Glu	Asp	Glu	Ala	Thr	Leu	Gly	Gln	Cys	Gly	Val
				85					90	•				95	
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Glu	Ala	Leu	Thr	Thr	Leu	Glu	Val	Ala	Gly	Arg	Met	Leu	Cly	Gly	Lys
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Val	His	_	Ser	Leu	Ala	Arg	Ala	Gly	Lys	Val	Arg		Gln	Thr	Pro
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Lys	Val 130		Lys	Gln	Glu	Lys 135		Lys	Lys	Lys	Thr 140	Gly	Arg	Ala	Lys
Arg	Arg	Met	Gln	Tyr	Asn	Arg	Arg	Phe	Val	Asn	Val	Val	Pro	Thr	Phe
145				-	150				:	155				٠.	160
Gly	Lys	Lys		Gly 165	Pro	Aşņ	Ala		Ser 170			. 			
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Val	Gln	Lys	His	Pro	His	Thr	Gly	Asp	Thr	Lys	Glu	Glu	Lys	Asp	Lys
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Asp	Asp				Glu										
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Ile	Ser	Gly	Val	Ile	Ala	Arg	Gly	Asp	Lys	Asp	Phe	Pro	Pro	Ala	Ala
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Ala		Val			Gln	_						_	_		Pro
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Ser		Arg	Thr	Gln	His	Ile	Gln	Gln	Pro	Arq	Lys				
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Ser Val Pro Asp Pro Ala Cys Leu Thr Leu Xaa Arg Val Ser Lys Gly
Leu Ala Ala Val Arg Ser Ser Val Pro Arg Ala Gly Gly Val Ser Arg-
                           40
                                                 45
Arg Leu Ala Ala Val Arg Ser Thr Val Leu Cys Arg Ala Val Gly Cys
Ile Leu Ala Glu Leu Leu Ala His Arg Pro Leu Leu Pro Gly Thr Ser
                   70
Glu Ile His Gln Ile Asp Leu Ile Val Gln Leu Leu Gly Thr Pro Ser
                 85
                                    90
Glu Asn Ile Trp Pro Gly Phe Ser Lys Leu Pro Leu Val Gly Gln Tyr
                               105
Ser Leu Arg Lys Gln Pro Tyr Asn Asn Leu Lys His Lys Phe Pro Trp
                            120
Leu Ser Glu Ala Gly Leu Arg Cys Cys Thr Ser Cys Ser Cys Thr Thr
                    . 135
Leu Arg Lys Gly Arg Arg Pro Gly Thr Ala Trp Arg Ala Pro Ile Ser
               150
                                       155
Arg Arg Ser Pro Tyr Pro Val Ser Arg Ser Ser Cys Arg Pro Phe Pro
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                                   170
Thr Thr Ala Thr Ser Gly Pro Pro Gln Pro Pro Pro Arg Ala Arg Ala
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Ser Ala Val Asn Pro Asp Gly Gly Pro Gly Thr Arg Leu Tyr Ser His
                           200
Thr Arg Ser Ser Asp Gln Trp Cys Leu
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Trp	Lys	Lys	Asn	Thr	Pro	Phe	Leu	Tyr	Asp	Leu	Val	Met	Thr	His	Ala
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Leu	Glu	Trp	Pro	Ser	Leu	Thr	Ala	Gln	Trp	Leu	Pro	Asp	Val	Thr	Arg
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Pro	Glu	Gly	Lys	Asp	Phe	Ser	Ile	His	Arg	Leu	Val	Leu	Gly	Thr	His
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Thr	Ser	Agn	Glu	Gln	Aen				Ile						
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		113										123			_
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	Phe	Gly	Gly	Phe	_	Ser	Val	ser	Gly	_	Ile	GIu	He	Glu	
145					150					155					160
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Lys	Ile	Asn	His	Glu	Gly	Glu	Val	Asn	Arg	Ala	Arg	Tyr	Met		Gln
				165					170					175	
Asn	Pro	Cys	Ile	Ile	Ala	Thr	Lys	Thr	Pro	Ser	Ser	Asp	Val	Leu	Val
			180					185					190		
Phe	Asp	Tyr	Thr	Lys	His	Pro	Ser	Lys	Pro	Asp	Pro	Ser	Gly	Glu	Cys
	•	195		•			200			•		205	_		-
Asn	Pro	Asn	T.e.i	Ara	Leu	Arg	Glv	His	Gln	Lvs	Glu	Glv	Tvr	Glv	Leu
	210	٦.٥٢	 u									1	- , -	1	
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JEI	TLD	ASI	PLO	ASII	Tien or	OCT.	GIY	***2	u−u	Tie ci	261	uta	SET	rsp	uah

225					230					235					240
His	Thr	Ile	Cys	Leu 245	Trp	Asp	Ile	Ser	Ala 250		Pro	Lys	Glu	Gly 255	_
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Ser	Phe	Asn	Pro	Tyr 325	Ser	Glu	Phe		Leu 330	Ala	Thr.	Gly		Ala 335	_
Lys	Thr	Val	Ala 340	Leu	Trp	Asp	Leu	Arg 345	Asn	Leu _.	Lys	Leu	Lys 350	Leu	His
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Val 385	Trp	Asp	Leu		Lys 390	Ile	Gly	Glu	Glu	Gln 395	Ser	Pro	Glu	Asp	Ala 400
Glu	Asp	Gly	Pro	Pro 405	Glu	Leu	Leu	Phe	Ile 410	His	Gly	Gly	His	Thr 415	Ala
Lys	Ile	Ser	Asp 420	Phe	Ser	Trp	Asn	Pro 425	Asn	Glu	Pro	Trp	Val 430	Ile	Cys
Ser	Val	Ser 435	Glu	Asp	Asn	Ile	Met 440	Gln	Val	Trp	Gln	Met 445	Ala	Glu	Asn
Ile	Tyr 450	Asn	Asp	Glu	Asp	Pro 455	Glu	Gly	Ser	Val	Asp 460	Pro	Glu	Gly	Gln
Gly 465	Ser							· .	·	-					·.

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             Glu Ala Pro Ala Pro Pro Lys Ala Glu Ala Lys Ala Lys Ala Leu Lys
                                                                                                                                                                                    25
        The National States at the end of the control of the second of the second
  Ala Lys Lys Ala Val Leu Lys Gly Val His Ser His Lys Lys Lys
              Ile Arg Thr Ser Pro Thr Phe Arg Arg Pro Lys Thr Leu Arg Leu Arg
                          on the first of the national first war from the branch free leadings and day free
  Arg Gln Pro Lys Tyr Pro Arg Lys Ser Ala Pro Arg Arg Asn Lys Leu
                                                                                                                  70
     interior in the comment of the comme
  Asp His Tyr Ala Ile Ile Lys Phe Pro Leu Thr Thr Glu Ser Ala Met
                                                                                                                                                                                                              90 . 95
                                                                                          85
       And the first two days is a law that the disk off the east the fire
 Lys Lys Ile Glu Asp. Asn Asn Thr Leu Val. Phe Ile Val Asp Val Lys
        Ala Asn Lys His Gln Ile Lys Gln Ala Val Lys Lys Leu Tyr Asp Ile
                            115 120
                                         and the first of t
 Asp Val Ala Lys Val Asn Thr Leu Ile Arg Pro Asp Gly Glu Lys Lys
     130 135
                    and the second of the second o
Ala Tyr Val Arg Leu Ala Pro: Asp Tyr Asp Ala Leu Asp Val Ala Asn
 145 150
                                                                                                                                                                      155 160
    and the second of the second o
Lys Ile Gly Ile Ile
                                                                                         165
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Asn	Pro 50		Pro	Pro		Val 55		Val	. Val	. Asp	Lys 60)		Glu	
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Pro	Glu	Arg	Arg 100	Pro	Pro	Arg	Glu	Arg 105		Phe	Glu	Lys	Pro		Glu
Glu	Lys	Gly 115	Glu	-Gly	:Glý	Glú	Phē 120		-Val	qeA`	Ärğ	Pro 125		Ile	Asp
Arg	Pro 130	Ile	Arg	Gly	Arg	Gly 135	Gly	Leu	Gly	Arg	Gly 140	ĀĒģ	Gly	Glÿ	Arg
Gly 145	Arg	Glÿ	Met	Gly	Arģ 150	Gly	Asp	Gly	Phe	Asp 155	Ser	Ārģ	Gly	Lyś	Arg 160
Glu	Phe	Asp	Arg	His 165	Ser	Gly	Ser	Asp	Arg 170		Ser	Phe	Ser	His 175	Tyr
Ser	Gly	Leú	Lys 180	His	Ğlu	Asp	Ĺyŝ	Arg 185	Gly	Ğly	Ser	Ğİÿ	Ser 190	His	Asn
Trp		Thr 195	ΫaΊ	Lys	Āsp	Glu	Leu 200	Thr	Asp	Leu	Ãsp	Gln 205	ser	Ašń	Val
Tħr	Glu 210	GIu	Thr	Pro	Glu	Gly 215	Glu	Glü	His	Ĥis	Přó 220	Val	Ala	Asp	Thr
Glü 225	Asn	Lys	Glu	Asn	Glu 230	Val	Glu	Glu	Val	Lys 235	Glú	Glu	Gly	Pró	Lys 240
Glu	Met	Thr	Leu	Asp 245	Glù	Trp	Lys	Ala	11e 250	Gln	Asn	Lys	Asp	Arg 255	Ala
Lys	Val	Glu	Phe 260	Asn		Arg	Lys	Pro 265	Asn	Glu	Gly	Ala	Asp 270	Glý	Gln
Trp	Lys	Lys 275	Gly	Phe		Leu	His 280	Lys	Ser	Lys	Ser	Glu 285	Ğlu	Ala	His
Ala	Glu	Asp	Ser	Val		Àsp	His	His	Р́ће	Arg	Lys	Pro	Äla	Àsn	Asp

11e 305	Thr	Ser	Gln	Leu	Glu 310	Ile	Asn	Phe	Gly	Asp 315	Leu	Gly	Arg	Pro	Gly 320
Arg	Gly	Gly	Arg	Gly 325	Gly	Arg	Gly	Gly	Arg 330		Arg	Gly	Gly	Arg 335	Pro
Asn	Arg	Gly	Ser 340	Arg	Thr	Asp	Lys	Ser 345	Ser	Ala	Ser	Ala	Pro 350	Asp	Val
Asp	Asp	Pro 355	Glu	Ala	Phe	Pro	Ala 360	Leu	Ala						. •
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Gly	Asp 50	Asp	Met	Glu	Val	Ser 55	Ala	Thr	Glu	Leu	Met 60	Asn	Ile	Leu	Asn
Lys 65	Val	Val	Thr	Arg	His 70	Pro	Asp	Leu	Lys	Thr 75	Asp	Gly	Phe	Gly	Ile 80
Asp	Thr	Cys	Arg	Ser 85	Met	Val	Ala	Val	Met 90	Asp	Ser	Asp	Thr	Thr 95	Gly
Lys	Leu	Gly			Gl [°] u					Trp	Asn	Asn	Ile 110		Arg
Trp	Gln _.	Ala 115	Ile	Tyr	Lys	Gln	Phe 120	Asp	Thr	Asp	Arg	Ser 125	Gly	Thr	Ile
Cys	Ser 130	Ser	Glų	Leu 	Pro	Gly 135	Ala	Phe	Glu	Ala	Ala 140	Gly	Phe	His	Leu
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     Ala Met Phe Arg Ala Phe Lys Ser Leu Asp Lys Asp Gly Thr Gly Gln
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      Ile Gln Val Asn Ile Gln Glu Trp Leu Gln Leu Thr Met Tyr Ser
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          The same form out the teachers are the control of the same are the same and the same are the same and the same are the sam
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35 40 45

Ser Trp Gly Pro Val Ala Ser Leu Pro Val Arg Ser Asp Phe Ser Leu 50 55 60

Ser Ser Ser Pro Val Gly Glu Thr Lys Pro Asp Trp Gly Ala Gln Gly 65 70 75 80

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Tyr	Ile	His	Pro 100		Asp	Ala	Val	Lys 105		Gly	Gln	Ala	Glu 110	Leu	Val
Val	Ile	Asp 115		Ala	Ala	Ala	Ile 120		Leu	Pro	Leu	Val 125	Lys	Ser	Leu
Leu	130		Tyr		Val	Phe 135		Ala	Ser	Thr	Ile 140	Asn	Gly	Tyr	Glu
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					Gln										
					Ala										
Gln	Glu	Ser 195	Ile	Arg	Tyr	Ala	Pro 200	Gly	Asp	Ala	Val	Glu 205	Lys	Trp	Leu *:
					Leu										
Gly 225	_	Pro			Glu 230										
Thr	Leu	Phe		_	His	_		Ser							
Met	Ala	Leu	Tyr 260		Ala										Leu
Gln	Met	275			Ala										Pro
Pro					Gln										
Gln 305	Val	Cys	Leu	Glu	Gly 310			Ser							
Leu	Ser	Arg			Lys								Trp		

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Val		Arg 355		Ala	Val	His	Pro 360	Asp	Tyr	Gln	Gly	Met 365		Tyr	Gly
Ser	Arg 370		Leu	Gln	Leu	Leu 375		Met	Tyr	Tyr	Glu 380		Arg	Phe	Pro
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		435			Val		440			,		445			
	450				Gly	455		•	•		460				. •
465				•	Glu 470					475					480
				485	Asp				490					495	
			500		Phe	÷		505	•				510		
		515		- .	Ala	•	520	,				525		Met	Gly
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<213> Homo sapiens

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Val	Ala	Asn	Asn	Val	Pro	Pro	Ala	Ala	Thr	Ser	Leu	Ile	Asp	Leu	Trp
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Pro	Gly	Asn	Gly	Glu	Gly	Ala	Ser	Thr	ren	GIN	GTA	GIU	PIO	Arg	AIA
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<u>.</u>	m	D	D	C	C1	mb	Glu	Wa l	mb-	T au	Ala	Glu	t/a l	Pro	T.em
Pro	Thr	Pro	PIO	ser	GLY	1111	GIU	· vai	1111	Leu	AIG.	GIU	VGI	110	u
	50					55		• -	•		. 60.		·		
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T.e11	Asn	Glu	Val	Ala	Pro	Glu	Pro	Leu	Leu	Pro	Ala	Xaa	Glu	Gly	Cys
					70	-				75			1		-80
60.	• .						•			, ,					
									•			•			
Ala	Thr	Leu	Leu	Asn	Phe	Asp	Glu	Leu	Pro	Glu	Pro	Pro	Ala	Thr	Phe
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Cys	Asp	Pro	Glu	Glu	Val	Glu	Gly	Glu	Pro	Leu	Ala	Ala	Pro	Gln	Thr
			100	÷: .**		**		105				' .	110.		- 14.
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Pro	Thr	Leu	Pro	Ser	Ala	Leu	ĞIU	GIU	Leu	GIU	GIN	GIU	GIN	GIU	Pro
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C1	Dwa	uia	T 011	LOU	Thr	Acn	Gly	Glu	Thr	Thr	Gln	T.VS	Glu	Glv	Thr
GIU	PIO	HIS.	Leu	Leu	IIII	ASII	GIY	GIU	1111	1	340	נעם		1	
	130		- :			-135					.140		-	-	
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Gln					•					<i>.</i>	-			Phe	Ala
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Cys	Asn	Lys 35		Asp	Glu	Lys	Lys 40	Glu	Arg	Gly	Leu	Pro 45		Gly	Asp
Val	Leu 50		Pro	Val	Gln	Lys 55		His	Glu	Gly	Pro 60		Glu	Met	. Gly
Lys 65	Pro	Val	Val	Ile	Pro 70	Lys	Glu	Asp	Gln	Glu 75			Lys	Glu	Met 80
Phe	Lys	Ile	Asn	Gln 85	Phe	Asn	Leu	Met	Ala 90	Ser	Glu	Met	Ile	Ala 95	
Asn	Arg	Ser	Leu 100	Pro	Asp	Val	Arg	Leu 105	Glu	Gly	Cys	· Lys	Thr 110	Lys	Val
Туг	Pro	Asp 115	Asn	Leu	Pro	Thr	Thr 120	Ser	Val	Val	Ile	Val 125	Phe	His	Asn
Glu	Ala 130	Trp	Ser	Thr	Leu	Leu 135	Arg	Thr	Val	His	Ser 140	Val	Ile	Asn	Arg
Ser 145	Pro	Arg	His	Met	Ile 150	Glu	Glu	Ile	Val	Leu 155	Val	Asp	Asp	Ala	Ser 160
Glu	Arg	Asp	Phe	Leu 165	Lys	Arg	Pro	Leu	Glu 170	Ser	Tyr	Val	Lys	Lys 175	Leu
Lys	Val	Pro	Val 180	His	Val	Ile	Arg	Met 185	Glu	Gln	Arg	Ser	Gly 190	Leu	Ile
Arg	Ala	Arg 195	Leu	Lys	Gly	Ala	Ala 200	Val	Ser	Lys	Gly	Gln 205	Val	Ile	Thr
Phe	Leu 210	Asp	Ala	His	Cys	Glu 215	Cys	Thr	Val	Gly	Trp 220	Leu	Glu	Pro	Leu
Leu 225	Ala	Arg	Ile	Lys	His 230	Asp	Arg	Arg	Thr	Val 235	Val	Cys	Pro	Ile	Ile 240
Asp	Val	Ile	Ser	Asp 245	Asp	Thr	Phe	Glu	Tyr 250	Met	Ala	Gly	Ser	Asp 255	Met
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Pro		Arg 275	Glu	Met	Asp	Arg	Arg 280	Lys	Gly	Asp	Arg	Thr 285	Leu	Pro	Val

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Glu	Asn	Leu	Glu	11e 325	Ser	Phe	Arg	Ile	Trp 330		Cys	Gly	Gly	Thr 335	
Glu	Ile	Val	Thr 340	Cys		His		345		Val	Phe	Arg	Lys 350	Ala	Thr
Pro	Tyr	Thr 355	Phe	Pro	Gly	Gly	Thr 360	Gly	Gln	Ile		Asn 365	Lys	Asn	Asn
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11e 385	Ile	Ser	Pro	Gly	Val 390	Thr	Lys	Val	Asp	Tyr 395	Gly	Asp	Ile	Ser	Ser 400
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Leu	Gİy	Glu 435	Ile :			Val						Leu 445	Asp	Asn 	Met
Ala	Arg 450	Lys	Glu	Asn		Lys 455	Val	Gly	Ile	Phe	Asn 460	Cys	His	Gly	Met
Gly 465	Gly	Asn	Gln	Val		Ser			Ala			Glu			Thr 480
Asp	Asp	Leu	Cys			Val ~			Leu 490	Asn	Gly	Pro	Val	Thr 495	Met
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Phe

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Asn	Ser	Arg 35	Pro	Pro	Ile	Pro	Gly 40		Pro	Tyr		Ala . 45		Pro	Ası
Leu	Trp 50	Ser	His	Trp		Asp . 55.		Ala		Pro	Pro 60		Ser	Leu	Ar
Pro 65	Val	Gln	Pro	Thr	Trp 70	Glu	Gly	Ser	Ser	Glu 75		Gly	Leu	Asp	Trg 80
Ala	Gly	Ala	Ser	Phe 85		Pro	Gly		Pro 90	Met	Trp	Ala	Ala	Leu 95	Asp
Glu	Gln	Met	Leu 100		Glu	Gly 		Gln 105		Ser	Leu	Leu 	Asp 110	Gly	Pro
Ala	Gln	Glu 115	Pro	Gln	Ser		Pro 120	Trp	Leu	Ser	Lys	Ser 125	Ser	Val	Ser
Ser	Leu 130	Arg	Leu	Gln	Gļn		Glu		Met		Phe 140	Pro	Thr	Glu	Glr
Ala 145	Val	Val	Ala		Ala 150	Ala	Thr	Gly	Arg	Val 155	Glu	Gly	Ala	Val	Ser 16.0
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Arg	Glr	l Lys	Ser	Ser	Xaa	Leu	Trp	Pro	His	Pro	Leu	Xaa	Arg	His	Arg
1				5	٠. :		7	٠.,	10	٠.	ī.··· .	:	٠,	15	
			-												
Ala	Gly	Pro			Ala	Gly	Asn	Gly	Gly	Ile	Leu	Pro	Asn	Leu	Gly
	•		20	. :	- 1	•		25	t		. ~	÷	- 30	:	٠.
												,. ·			
Asp	Gly	, Gly	Gly	Gly	Trp	Xaa	Trp	Trp	Glu	Gly	Asn	His	Val	Leu	Leu
		35		. :		•	40	٠.		•••		45			
	-												•		
Asn		Phe	Leu	Val	Pro				_			_			Thr
	50					55		• •		٠	60	٠.	*, •		
	Asp) Asn				Leu	Ala	Gln	Ala		Ile	His	Met	Cys	
65				- *.	. 70	:				75					80
	n .						•	_							
Thr	Pne	Ser	Ser	_			Asp	Asn			Arg	Pro	HIS		His
		•	* *	85		-			90					95	
Wa+	Dwa	* * * * * *		mh	**: -	Mb	c1	D===	77	3	D	C	C1		
mec	PIC	Lys	100	THE	nis	THE	GIU		uis	Arg	PIO	ser	110	PIO	Ата
			100					105	-				110	•	-
Glv	Ser	Ser	T.e.u	Gly	Dhe	Pro	T.eu	בומ	Hig	Phe	Gln	Glv	Pro	G1v	1 12
- 1,	-	115	DCu	GI	riic	110		714			G1	125	110	GLY	NI4
		117			-		120			•		127			
Δla	Thr	Lys	Cve	Glu	Ser	Ser	Va l	Δla	Δla	Pro	Ser	Phe	Ser	Pro	Ser
	130	_	4 13	Giu	561	135				,	140				
	130							• 4	•		-40		. :	-	
Thr	Ser	Ile	ឲ្យស	Pro	Tle	Glv	Lve	Hi =	Ara	Glv	Leu	Thr	Leu	Phe	Hie
145			-Ly	110	150	1			7	155	Deu.	•			
-															
Ile	Pro	Cys	Pro	Ala	Leu	Lys	Trp	Thr	Ile	Thr	Phe	Trp	Asp	Arg	Leu
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Cys Gln Trp Gly Phe Glu Arg Glu Phe Leu Glu Pro Thr Phe Lys Phe
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Cys Leu Ile Trp Arg Glu Thr Lys Ile Gly Arg Gly Lys Arg Thr Pro
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Asp Val Leu Leu Pro Glu Ile Leu Glu Thr Asp Ser Leu Asp Trp
   230 235
Lys Met Asp Lys Ser Ala Leu Thr Trp Arg Val Gly Thr Arg Trp Gly
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Pro Ala Leu Pro Thr Ala Ala Val Ala Ser Ser Leu Ala Gly Phe Ala
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Glu	Ala	Thr			Arg			Leu 105					Ser 110		Pro
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Pro	Leu 130	Val	Ser	Val	Thr	Val 135	Ser	Asp	Ala	Ser	Trp 140	Val	Ser	Glu	Leu
Leu 145	Trp	Ser	Leu	Phe	Val 150	Pro	Phe	Thr	Val	туr 155	Gln	Val	Arg	Trp	Leu 160
Arg	Pro	Val	His	Arg 165	Gln	Leu	Gly	Glu	Ala 170	Asn	Glu	Glu	Phe	Ala 175	Leu
Arg	Val	Gln	Gln 180	Leu	Val	Ala	Lys	Glu 185	Leu	Gly	Gln	Thr	Gly 190	Thr	Arg
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Pro 225	Ser	Pro	Asp	Val	Gln 230		Ala	Thr		Ala 235	Gln	Arg	Val	Lys	Glu 240
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Thr	Gly	Cys	Val 260	Asp	Leu	Thr	Ile	Thr 265	Asn	Leu	Leu	Glu	Gly 270	Ala	Val
Ala	Phe	Met 275	Pro	Glu	Asp	Ile	Thr 280	Lys	Gly	Thr	Gln	Ser 285	Leu	Pro	Thr
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GIN	Glu	Arg	Lys	325		Leu .	Tyr	GIU	330		Arg	Arg	, Arg	335	
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His	Ser	Tyr	Ser	Arg 165	Ala	Lys	Val	Lys	Phe 170	Asn	Val	Asn	Arg	Val 175	Asp
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Ala 225	Gln	Phe	Ile	Gly	Asn 230	Arg	Arg	Asn	. t			:			
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				s an	y of	the	nati	ural	ly o	ccur	ring	L-a	mino	aci	ds
	_														٠.
	0> 1		• •			·.	5	-						: '-	
GIY 1	THE	ser	хаа	Pne 5	Ser	Pne	Pro.	Leu	10	Arg	GIU	GIU	Ala	Met 15	Ala
•											-				
Ala	Met	Ala	Ser	Leu	Gly	Ala	Leu	Ala	Leu	Leu	Leu	Leu	Ser	Ser	Leu
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ser	Arg	Cys 35	Ser	АТА	Glu	Ala	Cys 40	Leu	GIU	Pro.	GIn	11e 45	Thr	Pro	Ser.
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Tyr	Tyr	Thr	Thr	Ser	Asp	Ala	Val	Ile	Ser	Thr	Glu	Thr	Val	Phe	Ile
	50					55					60				
*** 1	C1	71.			mb	G	T	»		**- 1	61 -		Ma.		•
65	GIU	TTE	Ser.	Leu	Thr	cys	rys	ASII	Arg	75	GIN	ASN	Met	Ala	80
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Tyr	Ala	Asp	Val	Gly	Gly	Lys	Gln	Phe	Pro	Val	Thr	Arg	Gly	Gln	Asp
				85					90					95	
17a l	Clu-	N ===		C1 n	1701		7	50 -	T ON	Non.	uia	T	C	21-	****
Val	Gry		1.00	GIII	Val		II.D	105		ASD	urs		110	MIG	nis.
						,									
Ala	Gly	Thr	Tyr	Glu	Val	Arg	Phe	Phe	Asp	Glu	Glu	Ser	Tyr	Ser	Leu
		115		٠ ،	: -		120				-	125		· · ·	
T a	N =====	T	22-	63 =	3	.	3	~ 1	B	T1-	C	T7 -		D	D
Leu	Arg	гàг	Y19	GIN	Arg	Asn 135	ASD	GIU	ASP		Ser 140_		тте		Pro
					•					-	~ 4 U	-	,		
Leu	Phe	Thr	Val		Val	Asp	His	Arg	Gly	Thr	Trp	Asn	Gly	Pro	Trp
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Phe		_	Trp		Glu :	_							-		Ser
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Gln 385		Lys	Arg	His	Trp 390		Arg	Туг	: Ile	ту: 395		Trp	o Ile	Asr	1 Ty:
Ala	Leu	Tyr	Glu	Glu 405		Glu	Ala	Lys	Asp 410		ής Gly	Arg	J Thr	Arg 415	
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Gln	Gln 690	Glu	Lys	Glu	Asp	Ala 695		His	His	Pro	700		Asp	Val	Asp
Glu 705	Ser	Glu	Ser							•	-				**
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Gln	Gly	Glu 35	Glu	Pro	Gln	Arg	Glu 40	Leu	Pro	Ser	Ala	Arg 45	Ile	Arg	Cys
Pro	Lys 50	Gly	Ser	Lys	Ala	Tyr 55	Gly	Ser	His	Cys	Tyr 60	Ala	Leu	Phė	Leu
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Ile	Asn	Ala 35	Ile	Asp	Thr	Gly	Arg 40	Phe	Pro	Arg	Leu	Leu 45	Thr	Arg	Ile
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Arg	Gln	Asp 115	Lys	Ala	Glu	Ala	Phe 120	Val	Asn	Thr	Trp	Ser 125	Ser	Met	Gly
3ln	Glu 130	Thr	Val	Glu	Lys	Phe 135	Arg	Gln	Arg	Ile	Leu 140	Ala	Pro	Cys	Lys
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Sln	Ala	Lys		Lys	Ser	Pro	Gln		Val	Leu	Gln	Leu	Gly	Val	Asn

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Arg	Ala 210		Ile	Lys	His	Asp 215		туг	Ser	Tyr	Ala 220		lle	Thi	Tr
Glu 225		Leu	Ser	Arg	Lys 230		Pro	Phe	e Glu	Asp 235		Thr	Asn	Pro	240
Gln	Ile	Met	туг	Ser 245	Val	Ser	Gln	Gly	His 250		Pro	Val	. Ile	255	
Glu	Ser	Leu	Pro 260		Asp	Ile	Pro	His 265		Ala	Arg	Met	1le 270		Let
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Tyr 385	Phe	Met	Lys	Leu	His 390	His	Cys	Pro	Gly	Asn 395	His	Ser	Trp	Asp	Ser 400
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Val	Ser	Thr	Lys	Pro 485	Thr	Arg	Thr	Ser	Lys 490	Val	Arg	Gln	Leu	Leu 495	Asp
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Leu	Lys	Asp 515	Asn	Lys	Gln	Met	Gly 520	Leu	Gln	Pro	туг	Pro 525	Glu	Ile	Leu
Val	Val 530	Ser	Arg	Ser	Pro	Ser 535	Leu	Asn	Leu	Leu	Gln 540	Asn	Lys	Ser	Met
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Val Gly Pro Val His Leu Thr Arg Gly Glu Gly Phe Gly Leu Thr

Leu	Arg 130	Gly	Asp	Ser	Pro	Val 135	Leu	Ile	Ala	Ala	Val 140	Ile	Pro	Gly	Ser
Gln 145	Ala	Ala	Ala	Ala	Gly 150	Leu	Lys	Glu	Gly	Asp 155	Tyr	Ile	Val	Ser	Val 160
Asn	Gly	Gln	Pro	Cys 165	Arg	Trp	Trp	Arg	His 170	Ala	Glu	Val	Val	Thr 175	Glu
Leu	Lys	Ala	Ala 180	Gly	Glu	Ala	Gly	Ala 185	Ser	Leu	Gln	Val	Val 190	Ser	Leu
Leu	Pro				Leu										
	Gly 210	Pro	Arg	Gly	Leu	Leu 215	Arg	Ser	Gln	Arg	Glu 220	His	Gly	Cys	Lys
Thr 225	Pro	Ala	Ser	Thr	Trp 230	Ala	Ser	Pro	Arg	Ala 235	Leu	Leu	Asn	Trp	Ser 240
Arg	Lys.	Ala	Gl'n	Gln 245	Gly	Lys	Thr	Gly	Gly 250	C.À.è.	Pro	Ser	Pro	Val 255	Pro
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Ser ·			Ser 20		Trp		-							Gln	Gly
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Ala	Ala 50	His	Cys	Val	Tyr	Asp 55							Trp		Ile
Gln 65			Leu		Ser 70			Asp					Ser		Leu 80

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Pro 225	Gly	Val	Tyr	Thr	Arg 230	Val	Thr	Ser	Phe	Leu 235	Asp	Trp	Ile	His	Glu 240
Gln	Met	Glu	Arg	Asp 245	Leu	Lys	Thr		-					:	
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Val	Asp	His	Val	Gly	Asn	Ala	Thr	Ala 105	Ser	Glņ	Glu	Leu	Gly 110	Tyr	Gly
Cys	Leu	Lys 115	Phe	Gly	Gly	Gln	Ala 120	туг	Ser	Asp	val	Glu 125	His	Thr	Ser
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Phe 145	Leu	Arg	Glu	Asn	Lys 150	Pro	Суѕ	Ile	Lys	Туг 155	Thr	Gly	His	Tyr	Phe 160
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Arg	Phe	Cys	Leu 180	Gly	His	Thr	Gly	Thr 185	Ala	Val	Gly	Lys	Leu 190	Leu	Thr
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Lys Val Tyr Ala Ser Leu Asn Lys Tyr Met Leu Leu Asn Lys Pro Tyr 25

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Gln Val Phe Cys Ile 50

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Met Phe Lys Cys Ile Gly Phe Gly Phe Ser Met Tyr Lys Leu Pro Tyr 20 25 30

Leu Leu Met Ser Ile Phe Cys Leu Phe Asn Phe Val Tyr Leu Leu Phe 35 40 45

Cys Phe Trp Ile His Phe Leu Ile Arg Ser His Met Ile Asn Ile Ile 50 55 60

Ser Ile Val Ile Ile Pro 65 70

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Cys Arg Gly Gly Asp Ala Asp Ser Arg Ala Pro Phe Thr Pro Thr 35 40 45

Trp Pro Arg Ser Arg Glu Arg Glu Ala Ala Ala Phe Arg Glu Ser Leu 50 55 60

Asn Arg His Arg Tyr Leu Asn Ser Leu Phe Pro Ser Glu Asn Ser Thr 65 70 75 80

Ala Phe Tyr Gly Ile Asn Gln Phe Ser Tyr Leu Phe Pro Glu Glu Phe

				85					90					95	
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Ala	Glu	Val 115	His	Met	Ser	Ile	Pro 120	Asn	Val	Ser	Leu	Pro 125	Leu	Arg	Phe
Asp	Trp 130	Arg	Asp	Lys		Val 135	Val	Thr	Gln	Val	Arg 140	Asn	Gln	Gln	Met
Cys 145	Gly	Gly	Cys	Ťrp	Ala 150	Phe	ser	Val	Val	Gly 155	Ala	Val	Glu	Ser	Ala 160
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Ile	Asp	Cys	Ser 180	Tyr	Asn	Asn	туг	Gly 185	Суѕ	Asn	Gly.	Gly	Ser 190	Thr	Leu
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Ser	Glu 210	Туг	Pro	Phe	Lys	Ala 215	Gln	Asn	Gly	Leu	Cys 220	His	Tyr	Phe	Ser
Gly 225	Ser	His	Ser	Gly	Phe 230	Ser	Ile	Lys	Gly	Tyr 235	Ser	Ala	Tyr	Asp	Phe 240
Ser	Asp	Gln	Glu	Asp 245	Glu	Met	Ala	Lys	Ala 250	Leu	Leu	Thr	Phe	Gly 255	Pro
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Île	Ile	Glñ 275	His	His	Суя	Ser	Ser 280	Gly	Glu	Ala	Asn	His 285	Alá	Val	Leu
Ile	Thr 290	Gly	Phe	Asp	Lyś	Thr 295	Gly	Ser	Thr	Pro	Tyr 300	Trp	Ile	Val	Arg
Asn 305	Ser	Trp	Ġly	Ser	Ser 310	Trp	Gly	Val	Asp	Gly 315	Tyr	Ala	His	Val	Lys 320
Met	Gly	Ser	Asn	Val 325	Cys	Gly	Ile	Ala	Asp 330	Ser	Val	Ser	Ser	Ile 335	Phe
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Ser His Gly Arg Val Gly Ala Thr Ala Ala Val Tyr Ser Ala Ala Ile
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Leu Glu Tyr Leu Thr Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ser
 65
                   70
                            75 80
Lys Asp Leu Lys Val Lys Arg Ile Thr Pro Arg His Leu Gln Leu Ala
                85 . .
                                   90
Ile Arg Gly Asp Glu Glu Leu Asp Ser Leu Ile Lys Ala Thr Ile Ala
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Gly Gly Gly Val Ile Pro His Ile His Lys Ser Leu Ile Gly Lys Lys
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Gly Gln Gln Lys Thr Val
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<223> Xaa equals any of the naturally occurring L-amino acids

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											:				
His	Gly	Glu	Leu 20		Ala	Pro	Pro	Arg 25		Leu	Arg	Arg	Ala 30		Gly
Xaa	Pro	Trp		Leu	Val	Thr	Ser 40		Xaa	Ser	Leu	Arg 45	Pro	Ser	Gly
Pro	Cys 50	Pro	Arg	Pro	Gly	Arg 55		Leu	Leu	Pro	Ser 60		Ala	Pro	Ala
Ala 65	Arg	Xaa	Pro	Trp	Gly 70	Gly	Val	Val	Trp	Cys 75	Trp	Glu	Gly	Val	Leu 80
Gln	Gly	Glu	Glu	Asp 85	Leu	Glu	Gly	Leu	Gly 90	Ala	Ala	Val	Leu	Asn 95	Arg
Leu	Thr	Leu	Arg 100	Arg	Pro	Leu	Ser	Ala 105	Ala	Leu	Leu	Phe	Ile 110	Thr	Val
Pro	His	Ser 115	Gly	Arg	Arg	Ser	Pro 120	Val	Ala	Gly	Gln	Val 125	Pro	Met	Ala
Суѕ	Ser 130	Leu	Glu	Pro	Asp	Phe 135	Arg	Cys	Phe	Gly	Ile 140	Arg	Ser	Pro	Gln
His 145	Arg	Gln	Val	His	Pro 150	Ile	Ile	Thr	Leu	Pro 155	Val	Pro	Gly	Trp	Ala 160
Gly	Asp	Ser	Gly	Thr 165	Val	Met	Pro	Gly	Ala 170	Arg	Thr	Ala	Ala	Leu 175	Pro
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Ile	Ser	Gly 195	Arg	Gly	Ser	Pro	Glu 200	Trp	Ser	Leu	Val	Arg 205	Ala	Val	Ala
Lys	Pro 210	Ala	Val	Ser	Phe	Leu 215	His	Lys	Val	Pro	Pro 220	Pro	Leu	Ser	Val
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Cys Leu Cys Leu Ser Asp Lys Tyr Ser Gln Ala Cys His Pro Leu Gly
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Ser Lys Val Arg Arg Cys Arg Lys Pro Gly Pro Arg Asp Arg Gln Leu
Thr Arg Val Asp Lys Ser Pro Glu Met Trp Cys Ile Val Leu Phe Ser
Leu Leu Ala Trp Val Tyr Ala Glu Pro Thr Met Tyr Gly Glu Ile Leu
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                                    90
Ser Pro Asn Tyr Pro Gln Ala Tyr Pro Ser Glu Val Glu Lys Ser Trp
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Asp Ile Glu Val Pro Glu Gly Tyr Gly Ile His Leu Tyr Phe Thr His
Leu Asp Ile Glu Leu Ser Glu Asn Cys Ala Tyr Asp Ser Val Gln Ile
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Ile Ser Gly Asp Thr Glu Glu Gly Arg Leu Cys Gly Gln Arg Ser Ser
                   150
                                       155
Asn Asn Pro His Ser Pro Ile Val Glu Glu Phe Gln Val Pro Tyr Asn
                                   170
               165
Lys Leu Gln Val Ile Phe Lys Ser Asp Phe Ser Asn Glu Glu Arg Phe
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Thr Gly Phe Ala Ala Tyr Tyr Val Ala Thr Asp Ile Asn Glu Cys Thr
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Lys	Asn		Gly	Val 245	Asn	Cys	Ser		Asp 250		Phe	Thr	Ala	Leu 255	Ile
Gly					Pro				Lys				Glu 270		Ser
Arg					Ile						Phe				Val
	Leu 290	Arg	Arg	Glu	Asp	Phe 295	Asp	Val	Glu	Ala	Ala 300	Asp	Ser	Ala	Gly
	Cys				Leu 310				Ala				Gln		Gly 320
Pro	Tyr	Cys	Gly	His 325	Gly	Phe		Gly		Leu	Asn	Ile	Glu	Thr 335	Lys
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Leu.	Phe 450	Gly	Ser	Val	Ile	Arg 455	Tyr	Thr	Cys	Glu	Glu 460	Pro	Tyr	Tyr	Tyr
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Trp	Val	Asn	Glu	Val 485		Gly	Pro	Glu	Leu 490		Lys	Cys	: Val	. Pro 495	Val
Суѕ	Gly	Val	Pro 500		Glu	Pro	Phe	Glu 505		Lys	Gln	Arg	11e 510		Gly
Gly	Ser	Asp 515		Asp	Ile	Lys	Asn 520	Phe	Pro	Trp	Gln	Val 525		Phe	Asp
Asn	Pro 530	Trp	Ala	Gly	Gly	Ala 535		Ile	Asn	Glu	Tyr 540	Trp	Val	Leu	Thr
Ala 545	Ala	His	Val	Val	Glu 550	Gly	Asn	Arg	Glu	Pro 555	Thr	Met	Tyr	Val	Gly 560
Ser	Thr	Ser.	Val	Gln 565	Thr	Ser	Arg	Leu	Ala 570	Lys	Ser	Lys	Met	Leu 575	Thr
Pro	Glu	His	Val 580	Phe	Ile	His	Pro	Gly 585	Trp	Lys	Leu	Leu	Glu 590	Val	Pro
Glu	Gly	Arg 595	Thr	Asn	Phe	Asp	Asn 600	Asp	Ile	Ala	Leu	Val ⁻ 605	_	Leu	Lys
Asp	Pro 610	Val	Lys	Met	Gly	Pro 615	Thr	Val	Ser	Pro	Ile 620	Cys	Leu	Pro	Gly
Thr 625	Ser	Ser	Asp -	Tyr	Asn 630	Leu	Met	Asp	Gly	Asp 635	Leu	Gly	Leu	Ile	Ser 640
Gly	Trp	Gly	Arg	Thr 645		Lys	Arg	Asp	Arg 650	Ala	Val	Arg	Leu	Lys 655	Ala
Ala	Arg	Leu	Pro 660	Val	Ala	Pro	Leu	Arg 665	Lys	Cys	Lys	Glu	Val 670	Lys	Val
Glu	Lys	Pro 675	Thr	Ala	Asp	Ala	Glu 680	Ala	Tyr	Val	Phe	Thr 685	Pro	Asn	Met
Ile	Cys 690	Ala	Gly	Gly	Glu	Lys 695	Gly	Met	Asp	Ser	Cys 700	Lys	Gly	Asp	Ser
Gly 705	Gly	Ala	Phe	Ala	Val 710	Gln.	Asp	Pro	Asn	Asp 715	Lys	Thr	Lys	Phe	Туг 720
Ala	Ala	Gly	Leu	Val 725	Ser	Trp	Gly	Pro	Gln 730	Cys	Gly	Thr	Tyr	Gly 735	Leu
Tyr	Thr	Arg	Val	Lys	Asn	Tyr		Asp.	Trp	Ile	Met	Lys	Thr	Met	Gln

Glu	Asn	Ser	Thr	Pro	Arg	Glu	Asp
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<210> 1025					
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	Arg Leu Arg	Ard Ard	Ard Ser Gl	v Ser Dro	Glive Tro Are
1	5	nra nra	10	y Ser Fro	15
<del>-</del>	,		. 10		1.
Ala Pro Arg	Thr Gly Met	Leu Leu	Glv Leu Al	a Ala Met	Gin Len Lys
	20		25		30
				•	30
Val Trp Val	Asp Gly Ile	Gln Arq	Val Val Cv	s Glv Val	Ser Glu Gln
35		40		45	
Thr Thr Cys	Gln Glu Val	Val Ile	Ala Leu Al	a Gln Ala	Île Glŷ Gln
50		55		- 60	•
				•	
Thr Gly Arg	Phe Val Leu	Val Gln	Arg Leu Ar	g Glu Lys	Glu Arg Gln
65	70		. 7		80
			•		
Leu Leu Pro	Gln Glu Cys	Pro Val	Gly Ala Gl	n Ala Thr	Cys Gly Gln
	85		90		95
Phe Ala Ser	Asp Val Gln	Phe Val	Leu Arg Ar	g Thr Gly	Pro Ser Leu
	100		105		110
	•				
	Pro Ser Ser		Cys Pro Pro	Pro Glu	Arg Cys Leu
115		120		125	
	Ser Leu Pro		Pro Arg Xaa		Gly Cys Glu
130		135		140	
Dec 1	Mhas Yara Mh-	D== 63			
	Thr Leu Thr	Pro Glu			
145	150		159	•	160

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Gly Pro Ala Ala Cys Glu His Pro His Gln Ala Ala Gln Thr Cys
Gly Ala Trp Ser Ser Gly Cys Arg Gly Met Leu Arg Ser Trp Ala Met
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                                185
Arg Pro Ser Gly Ser Lys Ser Cys Ala Gly Ser Arg Pro Gly Ser Glu
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Arg Asp Arg His Ala Cys Arg His
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Lys Met Gln Gln His Val Cys Glu Thr Ile Ile Arg Ile Phe Lys Arg
             20
                                 25
His Gly Ala Val Gln Leu Cys Thr Pro Leu Leu Pro Arg Asn Arg
Gln Ile Tyr Glu His Asn Glu Ala Ala Leu Phe Met Asp His Ser Gly
                        55
Met Leu Val Met Leu Pro Phe Asp Leu Arg Ile Pro Phe Ala Arg Tyr
65
Val Ala Arg Asn Asn Ile Leu Asn Leu Lys Arg Tyr Cys Ile Glu Arg
Val Phe Arg Pro Arg Lys Leu Asp Arg Phe His Pro Lys Glu Leu Leu
```

110

Glu	Cys	Ala 115		Asp	Ile	Val	Thr 120		Thr	Thr	Asn	Ser 125		Leu	Pro
Thr	Ala 130		Ile	Ile	Tyr	Thr 135		Tyr	Glu	Ile	11e		Glu	Phe	Pro
Ala 145	Leu	Gln	Glu	Arg	Asn 150	Tyr	Ser	Ile	Tyr	Leu 155		His	Thr	Met	Leu 160
Leu	Lys	Ala	Ile	Leu 165	Leu -	His	Cys	Gly	11e 170	Pro	Glu	Asp	Lys	Leu 175	Ser
			180				Asp	185				•	190		_
	,	195			•		200		٠.		-	205			Ser
	210					215	Ile	. *			220				
225				•	230		Leu			235	**			-	240
				245			Lys		250			. :		255	
			260	,			Leu	265		٠.		٠.	270	<u>.</u>	
		275					Asn 280				-	285		-	
	290					295	Ala	,			300				
305					310		Pro	i	-	315					320
				325			Gly		330					335	*.
		•	340				Glu	345		•			350		
-		355					360					365			-
ASN	370	TUL	GTU	гÀг	ьец	375	Thr	МIG	GIÀ	TTE	380	WIG	GIU	тте	met

Tyr 385	Asp	Trp	Ser	Gln	Ser 390	Gln	Glu	Glu	Leu	Gln 395	Glu	Tyr	Суѕ	Arg	His 400
His	Glu	Ile	Thr	Tyr 405	Val	Ala	Leu	Val	Ser 410	Asp	Lys	Glu	Gly	Ser 415	His
Val	Lys	Val	Lys 420	Ser	Phe	Glu	Lys	Glu 425	Arg	Gln	Thr	Glu	Lys 430	Arg	Val
Leu	Glu	Thr 435	Glu	Leu	Val	Asp	His 440	Val	Leu	Gln	Lys	Leu 445	Arg	Thr	Lys
Val	Thr 450	Asp	Glu	Arg	Asn	Gly 455	Arg	Glu	Ala	Ser	Asp 460	Asn	Leu	Ala	Val
Gln 465	Asn	Leu	Lys	Gly	Ser 470	Phe	Ser	Asn	Ala	Ser 475	Gly	Leu	Phe	Glu	Ile 480
His	Gly	Ala	Thr	Val 485	Val	Pro	Ile	Val	Ser 490	Val	Leu	Ala	Pro	Glu 495	Lys
Leu	Ser	Ala	Ser 500	Thr	Arg	Arg	Arg	туr 505	Glu	Thr	Gln	Val	Gln 510	Thr	Arg
		515			Ala		520		·	_		525			
Ile	Leu 530	Ala	Val	Asp	Leu	Pro 535	Lys	Glu	Thr	Ile	Leu 540	Gln	Phe	Leu	Ser
545			-		Asp 550					555				-	560
				565	Pro				570					575	
			580		Lys			585				Val	Leu 590	Phe	Leu
Tyr	Ser	Tyr 595	Arg	Asp	Asp	Tyr	Tyr 600	Arg	Ile	Leu	Phe				

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<212> PRT

<213> Homo sapiens

<220>

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					_				•						
<40	0> 1	027			.·										
				Ile	Asc	Thr	Lys	Phe	Thr	Ser	T.vc	Glu	Pro		. Dha
1		-4-	1						10		٠, ٠, ٠	010		15	
_									10	<b>,</b>				1.5	,
T.eu	Thr	. Gla		Len	uic	Dhe	Ser	. Acs	Tou		C19	 			
		<b>U</b> 1	20		1110	rne	Jer	25		, vee	GIN	GIU			ille
			. 20	_		•		. 23			Į.		30	٠	
7.00					~1 <u>-</u>		-1-								
ASI	Ser			Leu	GLII	ASI	Ile		Asp	Ala	GIY	•		Met	Pro
		35					40					45			
		- 1								. 2		-		٠.	•
Thr		ITE	Gin	Met	GIn		Ile	Pro	Val	Met			Gly	Arg	Glu
	50		_			55					60				
	•		,					•		•		• • • •			
		Ala	Ser	Ala	Pro	Thr	Gly	Ser	Gly	Lys	Thr	Leu	Ala	Phe	Ser
65					70					75					<u>)</u> 80
			-		1. 1						91.		*		<i>:</i> .
Ile	Pro	Ile	Leu	Met	Gln	Leu	Lys	Gln	Pro	Ala	Asn	Lys	Gly	Phe	Arg
				85					90					95	•
						*				· :	:				· .
Ala	Leu	Ile	Ile	Ser	Pro	Thr	Arg	Glu	Leu	Ala	Ser	Gln	Ile	His	Arg
			100					105					110		_
									¥	· ·	•			:	· -
Glu	Leu	Ile	Lys	Ile	Ser	Glu	Gly	Thr	Gly	Phe	Arq	Ile	His	Met	Ile
		115					120		•			125			
															· ::
His	Lys	Ala	Ala	Val	Ala	Ala	Lys	Lvs	Phè	Glv	Pro	Lvs	Ser	Ser	Tive
	130					135	•			2	140	-1-			:-,-
			_				-								٠.
Lvs	Phe	Asp	Tle	Leu	Va 1	The	Thr	Pro	Asn	Ara	T.011	Tle	ጥህም	7 011	Len
145					150					155	Deu	110	171	Deu	160
										133					100
Luc	Gln	Acn	Pro	Dro	Glv	Tla	Asp	Tan	11 =	505	Un 1	G1.,		T	
<b>- y y</b>	01	nsp	110	165	GLY	116	изЪ	Dea	170	Set	val	GIU	пр		val
				103					170					175	
Wal	A c n	Cl.	Ca=	200	T	*	Phe	C1	N	C1	*		·	<b>5</b> -	
val	vəb	Giu													Arg
			180										190		
	<b>01</b> -	<b>.</b>		•	-1.				_		_	•			
ASP	GIN		Ala	ser	ile	Pne	Leu	Ala	Cys	Thr	Ser		Lys	Val	Arg
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Arg		Met	Phe	Ser	Ala		Phe	Ala	Tyr	Asp	Val	Glu	Gln	Trp	Cys
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	Leu	Asn	Leu	Asp	Asn	Val	Ile	ser	Val	Ser	Ile	Gly	Ala	Arg	Asn
225					230					235					240
Ser	Ala	Val	Glu	Thr	Val	Glu	Gln	Glu	Leu	Leu	Phe	Val	Gly	Ser	Glu

				245					250					255	
Thr	Gly	Lys	Leu 260	Leu	Ala	Val	Arg	Glu 265		Val	Lys	Lys	Gly 270		Asr
Pro	Pro	Val 275	Leu	Val	Phe	Val	Gln 280	Ser	Ile	Glu	Arg	Ala 285	Lys	Glu	Leu
Phe	His 290	Glu	Leu	Ile	Tyr	Glu 295	Gly	Ile	Asn	Val	Asp 300	Val	Ile	His	Ala
Glu 305	Arg	Thr	Gln	Gln	Gln 310	Arg	Asp	Asn	Thr	Val 315	His	Ser	Phe	Arg	Ala 320
Gly	Lys	Ile	Trp	Val 325	Leu	Ile	Cys	Thr	Ala 330	Leu	Leu	Ala	Arg	Gly 335	Ile
Asp	Phe	Lys	Gly 340	Val	Asn	Leu	Val	Ile 345	Asn	Tyr	Asp	Phe	Pro 350	Thr	Ser
Ser	Val	Glu 355	Tyr	Ile	His	Arg	Ile 360	Gly	Arg	Thr	Gly	Arg 365	Ala	Gly	Asn
Lys	Gly 370	Lys	Ala	Ile	Thr	Phe 375	Phe	Thr	Glu	Asp	Asp 380	Lys	Pro	Leu	Leu
Arg 385	Ser	Val	Ala	Asn	Val 390	Ile	Gln	Gln	Ala	Gly 395	Cys	Pro	Val	Pro	Glu 400
Tyr	Ile	Lys	Gly	Phe 405	Gln	Lys	Leu	Leu	Ser 410	Lys	Gln	Lys	Lys	Lys 415	Met
Ile	Lys	Lys	Pro 420	Leu	Glu	Arg	Glu	Ser 425	Ile	Ser	Thr	Thr	Pro 430	Lys	Cys
Phe	Leu	Glu 435	Lys	Ala	Lys	Asp	Lys 440	Gln	Lys	Lys	Val	Thr 445	Gly	Gln	Asn
Ser	Lys 450	Lys	Lys	Val	Ala	Leu 455	Glu	Asp	Lys	Ser					
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Gln Arg Gly Phe Tyr Ala Asn Ala Leu Thr Ser Ala Leu Gly Asn Glu

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<212> PRT

<400> 1028

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<213> Homo sapiens

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Leu	Thr	Asn 35		Cys	His		His `40		Cys	Phe			Asp	Leu	Cys
	Leu 50				Ser								His	Cys	Leu
Pro 65			Ser						. •. i	•	1 ::	-, -		1	•
	o > 1	029	. 7.	4			1	***	• •					F.	
<212		RT :	sapi					٠.		:		:			
Tyr			Thr		Ala	Pro	Ala	Pro		Asp	Pro	Ser	Pro	_	Ala
l His	Gly		Gly	5 Asp	Asp	Val	Thr		10 Ala	Thr	Ala	Leu		15 Ser	His
Ile		Val			Ala			25 Gly					30 Thr		Arg
	Ser 50				Val	Gln	Met		His					•	Gly
Glu 65	Leu	Gly	Met	Thr	Ser 70					Ala .75	Thr	Thr	Ser	Arg	Ala 80
Met	Ser	Thr	Ser	His 85	Ile	Leu	Met			Arg		Gly	Asp	Gly 95	Ile
					Met			Thr 105				Thr	Thr 110		
let					Ile									Arg	Met
Pro	Phe 130	His			Phe					His	_		Ser	Arg	Ser
					Arg 150										

Pro His Ser Pro Gly Pro Gln His Leu Pro Ser Ser Ser Phe Leu Ala 165 170 175

Ser Gln Pro Leu Pro His Pro Gln Cys Leu Asp Pro Glu Val Arg Thr 180 . 185 190

Gly Ser His Ser Pro Pro Leu Leu Glu Arg Glu Cys Phe Gln Asp Pro 195 200 205

Leu Gly Ala Leu Ser Arg Gly 210 215

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<212> PRT

<213> Homo sapiens

<400> 1030

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Val Arg Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg
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Leu Thr Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu 35 40 45

Pro Leu Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln 50 55 60

Ala Gln Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys
65 70 75 • 80

Asn Ala Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe 85 90 95

Gly Leu Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met 100 105 110

Gln Lys Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe 115 120 125

Pro Asn Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val 130 135 140

Ser Tyr Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser 145 150 155 160

Lys Ala Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys

				105					170					1/5	
Val	Val	Trp	Gly 180	Thr	Ala	Asp		Met 185		Gly		Ala	Arg 190	Gly.	Ala
His	Gly	Asp 195	Ser	Tyr	Pro	Phe				Gly		Thr 205	Leu	Ala	His
Ala	Phe 210		Pro	Gly	Thr	Gly 215	Leu	Gly	Gly	Asp	Ala 220			Asp	Glu
Asp 225	Glu	Arg	Trp	Thr		Gly	Ser	Ser	Leu	Gly 235	Ile	Asn	Phe	Leu	Туг 240
Ala	Ala	Thr	His	Glu 245	Leu	Gly	His	Ser	Leu 250	Gly	Met	Gly	His	Ser 255	Ser
Asp	Pro		Ala 260		Met	Tyr	Pro	Thr 265	Tyr	Gly	Asn	Gly	Asp 270	Pro	Gln
Asn	Phe.				Gln	Asp	Asp 280	Ile	Lys	Gly	Ile	Gln 285	Lys	Leu	туг
Gly	Lys 290	Arg	Ser	Asn	Ser	Arg 295	Lys	Lys							
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	!> 57 !> PF														
			sapie	ns											
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	> (8			•		**									
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		184) 18 ec								curr		T. = ==		acid	
~4 L J	- 10	.a ec	1ua IS	any	ΟI	CIIG	a.tu	rall	.y oc	.cul I	4119	L-an	.1110	ac10	3
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								Cys	Val	Asn	Thr	Gln			
1				5					10					15	

His	Cys	Leu	Pro 20	Cys	Pro	Pro	Arg	Tyr 25	Arg	Gly	Asn	Gln	Pro 30	Val	Gly
Val	Gly	Leu 35	Glu	Ala	Ala	Lys	Thr 40	Glu	Lys	Gln	Xaa	Cys 45		Pro	Glu
Asn	Pro	_	Lys	Asp	Lys	Thr 55	His	Asn	Cys	His	Lys 60	His	Ala	Glu	Cys
Ile 65	Tyr	Leu	Gly	His	Phe 70	Ser	Asp	Pro	Met	Tyr 75	Lys	Cys	Glu	Cys	Gln 80
Xaa	Gly	Tyr	Ala	Gly 85	Asp	Gly	Leu	Ile	Cys 90	Gly	Glu	Asp	Ser	Asp 95	Leu
			100		Leu			105	-				110		-
		115			Asn	-	120					125	·		
	130				Gly	135					140				
145					Asp 150					155					160
				165	Tyr				170					175	-
			180		His			185					190		
		195			Cys		200					205			
	210				Cys	215					220				
225					Val 230					235					240
			•	245	Thr	_		_	250	-			-	255	
	-		260		Asp			265		-			270		
vab	ASI	Cys	PTO	TYL	Ile		ASN	WIG	ASN	GIN	ALA	ASP	H12	Asp	Arg

Asp	Gly 290	Gln	Gly	Asp	Ala	Cys 295	Asp	Pro	Asp	Asp	Asp 3 <u>0</u> 0	Asn	Asp	Gly	Val
Pro 305	Asp	Asp	Arg	Asp	Asn 310	Cys	Arg	Leu	Val	Phe 315	Asn	Pro	Asp	Gln	Glu 320
Asp	Leu	Asp	Gly	Asp 325	Glÿ	Arg	Gly	Asp	11e 330	Cys	Lys	Asp	Asp	Phe 335	Asp
Asn	Asp	Asn	11e 340	Pro	Asp	Ile	Asp	Asp 345	Val	Cys	Pro	Glu	Asn 350	Asn	Ala
Ile	Ser	Glu 355	Thr	Asp	Phe	Arg	Asn 360	Phe	Gln	Met	Val	Pro 365	Leu	Asp	Pro
Lys	Gly 370	Thr	Thr	Gln	Ile	Asp 375		Asn :	Trp	Val	11e 380	Arg	His	Gln	Gly
Lys 385	Glu	Leu	Val	Gln	Thr 390	Ala	Asn	Ser	Asp	Pro 395	Gly	Ile	Ala	Val	Gly 400
Phe	Asp	Glu	Phe	Gly 405	Ser	Val	Asp	Phe	Ser 410	Glÿ	Thr	Phe	Tyr	Val 415	Asn
Thr	Asp	Arg	Asp 420	Asp	Asp	Tyr	Ala	Gly 425	Phe	Val	Phe	Gly	Tyr 430	Gln	Ser
Ser		Arg 435	Phe	Tyr	Val	Val	Met 440	Trp	Lys	Gln	Val	Thr 445	Gln	Thr	Tyr
	Glu 450	Asp	Gln	Pro	Thr	Arg 455	Ala	Tyr	Gly	Tyr	Ser 460	Gly •	Val	Ser	Leu
		Val			Thr 470	Thr ·					His		Arg		Ala 480
Leu	Trp	His	Xaa	Gly 485	Asn		Pro				Arg	Thr	Leu	Trp 495	His
Asp	Pro										Ala				
Leu	Thr	His 515	Arg	Pro	Lys	Thr					Val				
			Val								Tyr 540		Gln	Thr	Tyr
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<210> 1032 <211> 114

<212> PRT

<213> Homo sapiens

<400> 1032

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Cys Leu Gly Arg Ala Glu Ala Phe Trp Arg Ser Lys Met Gly Arg Lys
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Asp Ala Ala Thr Ile Lys Leu Pro Val Asp Gln Tyr Arg Lys Gln Ile  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Lys Gln Asp Tyr Lys Lys Thr Lys Pro Ile Leu Arg Ala Thr Lys 50 55 60

Leu Lys Ala Glu Ala Lys Lys Thr Ala Ile Gly Ile Lys Glu Val Gly 65 70 75 80

Leu Val Leu Ala Ala Ile Leu Ala Leu Leu Leu Ala Phe Tyr Ala Phe 85 90 95

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Glu Asp

<210> 1033

<211> 243

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222>. (88)

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<220>

<221> SITE

<222> (101)

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Gly	Ala	Gln	Ala 20	Ala	Asp	Ala	Cys	Gly 25	Pro	Arg	Ala	Asp	Leu 30	Gly	Gly
Pro	Arg	Glu 35	Pro	Ala	Ala	Gly	Gly 40	Arg	Ala	Ala	Trp	His 45	Arg	Pro	Ala
Ala	Arg 50		Gln	Ser	Pro	Arg 55	Arg	Cys	His	Ala	Gly 60	Val	His	Arg	Ser
Gln 65	Cys	His	Leu	Cys	Arĝ 70	Lėü	Glý	Ala	Ala	Glu 75	Arg	Phe	Arg	Gly	Ile 80
Val	Ala	Leu	Leu	Ala 85	Ser	Arg	Xaa	Leu	Leu 90	Arg	Pro	Pro	Leu	His 95	Trp
Val	Leu	Leu	Ala 100	Xaa	Al'à	Leŭ :	Val	Asn 105	Leu	Leu	Leu	Ser	Val 110	Ala	Cys
Ser	Leu	Gly 115	Leu	Leu	Leu	Alā	Vál 120	Ser	Leu	Thr	Val	Ala 125	Asn	Gly	Gly
Arg	Arg		Ile	Ala	Asp	Cys 135	His	Pro	Gly	Leu	Leu 140	Àsp	Pro	Leu	Val
Pro 145	Leu	Asp	Glu	Gly	Pro 150		His	Thr	Asp	Cys 155	Pro	Phe	Asp	Pro	Thr 160
Arg	Ile	туг	Asp	Thr 165	Ala	Leu	Ala	Leù	Trp 170	Ile	Pro	Ser	Leu	Leu 175	Met
Ser	Ala	Gly	Glu 180	Ala	Ala	Leu	ser	Gly 185	туг	Суѕ	Cys	Val	Ala 190	Ala	Leu
Thr	Leu	Arg 195	Gly	Val	Gly	Pro	Cys 200	Arg	Lys	Asp	Gly	Leu 205		Glý	Gln
Ĺeu	Glu 210		Met	Thr	Glu	Leu 215	Glu	Ser	Pro	Lys	Cys 220	Lys	Arg	Gln	Glu
Asn 225	Glu	Gln	Leu	Leu	Asp 230	Glń	Asn	Gln	Glú	Ilė 235	Arg	Ala	Ser	Gln	Arg 240
Ser	Trp	Val			;	-			-	٠.					

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<213> Homo sapiens
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Tyr Thr Trp His Ser Glu Lys Met Asp Leu Lys Asp Lys Asn Gly Gly
Pro Gly Arg Cys Asn Ser His Arg Leu Lys Val Ser Ser Gly Leu Cys
Lys Thr His Glu Ile Gly Phe Asp Pro Leu Ala Leu Lys Cys Pro Leu
                             40
Arg Ser Arg Thr Ala Pro Trp Trp Pro Leu Asp Arg Val Ser Phe Asp
                         55
Leu His His Leu Val Ile Gly Asn Phe Phe Val Gly Asn Arg Lys Ile
Phe Leu Asp Tyr Leu Val Tyr Gly Phe Ala His Asn Asn Arg Trp Lys
                                     90
Leu Leu Val Gln Ser Trp Ser Asp Gly Cys Val His Arg Thr Phe Gly
            100
                                105
Leu Val Lys Ser Phe Ser Lys Ala Ser Phe Cys Ile Phe Ile Thr Lys
                            120
Gln Arg Lys Ser Ser Glu Asp Leu Ala Leu Lys Gln Ile Cys Ala Asn
                        135
Thr Ala Arg Val Ile Leu Lys Leu Lys His Phe His Phe Val Ser Tyr
                                        155
Met Cys Thr Phe Leu Phe Thr Cys Glu Asn Gly His Leu
                165
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<213> Homo sapiens

<400> 1035
Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
1 5 10 15
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<210> 1035 <211> 241

Phe	Thr	Phe	Asn	Phe	Leu	Phe	Trp	Leu	Cys	Gly	Ile	Leu	Ile	Leu	Ala
			20					25					30		
					•										
Leu	Ala	Ile	Trp	Val	Arg	Val	Ser	Asn	Asp	Ser	Gln	Ala	Ile	Phe	Gly
		.3.5					40.			-		45	٠.		-
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Ser	Glu	Asp	Val	Glv	Ser	Ser	Ser	Tvr	Val	Ala	Val	Asp	Tle	Leu	Ile
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			GIU											-	Leu
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Leu	Leu	Ile													Val-
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Phe	Lys	Ser	Lys	Ser	Asp	Arg	Ile	Val	Asn	Glu	Thr	Leu	Tyr	Glu	Asn
		115			==		120			**		125		٠.,•	
						- *3									• `
Thr	Lys	Leu	Leu	ser	Ala	Thr	Gly	Glu	Ser	Glu	Lvs	Gln	Phe	Gln	Glu
	130														
Ala	Ile	Ile	Val	Phe	Gln	Glu	Glu	Phe	T.vs	Cvs	Cvs	Gly	T.e.11	vai	Agn
					150							3			
143					130					133		*	•		100
C1	21-	23.	3	<b></b>	61			<b>n</b> b			m	<b>D</b>	<b>~</b> 1	-	_
GIY	ALA	ALG								пта	TYL	Pro	GIU		_
-				165		.*			170					175	•
	_	_		_			_	_		_				:	_
Ala,	cys	Leu	_	Lys	GIn	Arg	Pro	_	GIn	Ser	Tyr	Asn	_	Lys	Gln
			180					185					190		
Val	Tyr	-	Glu	Thr	Cys	Ile	Ser	Phe	Ile	Lys	Asp	Phe	Leu	Ala	Lys
		195					200					205			
Asn	Leu	Ile	Ile	Val	Ile	Gly	Ile	Ser	Phe	Gly	Leu	Ala	Val	Ile	Glu
	210					215					220				
Ile	Leu	Gly	Leu	Val	Phe	Ser	Met	Val	Leu	Tyr	Cys	Gln	Ile	Gly	Asn
225			•		230					235					240
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Lys												•			
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<210	> 1∩	36												, .	
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<212								-							
-614	- ET														

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225	5				230	)				235	5				240
Leu	Туг	Phe	Ası	n Pro 245		r Phe	e Pro	Gly	/ Glr 250		a Ile	∋ Ala	a Met	255	
Pro	Ile	Э Туз	260		val	l Leu	Glu	Phe 265		) Asp	Gly	Thi	Pro 270		Thr
Met	Ser	Glr 275		e Ala	Lys	Asp	Val 280		Thr	Phe	. Leu	285		Ala	Ser
Glu	Pro 290		His	- Asp	His	295		Arg	Met	Gly	Leu 300		. Met	Leu	Met
Met 305	Met	Ala	Leu	. Leu	Val 310		Leu	Val		315		Lys	Arg	His	Lys 320
Trp	Ser	Val	Leu	Lys 325		Arg	Lys	Leu	Ala 330	Tyr	Arg	Pro	Pro	Lys 335	
		•				•	• •	* *	* *				• •		-
<21	0> 1 1> 5 2> P	11	. 5		.11.		. g.:		17.3			<i>;</i>			3.5%
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			Gln	Gly 5	Pro	Leu	Pro	Leu	Arg 10	Ala	Leu	Pro	Trp	His 15	Ser
Ser	Arg	Ser	Arg 20	Val	Thr	Cys	Thr	Arg 25	Су.ѕ	Phe	Ser	Trp	Met 30	His	Pro
Ser	Pro	Met 35	His	Pro	Leu	Arg	Ala 40	Gly	Ser	Lys	Ser	Gln 45	Gly	Ser	Arg
Ser	Pro 50	Ala	Pro	Ser	Pro	Met 55	Arg	Ala	Ala	Asn	Arg 60	Ser	His	Ser	Ala
Gly 65	Arg	Thr	Pro	Gly	70	Thr	Pro	Gly	Lys	75	Ser	Ser	Lys	Val	Gln 80
Phr	Thr	Pro	Ser	Lys 85	Pro		Gly		Arg 90	Tyr	Ile	Pro	His	Arg 95	Ser
Ala	Ala	Gln	100			Ala	Ser	Phe 105		Leu	Ser	Lys	Glu 110	Asn	Gln
Pro	Glu	Asn 115		Gln		Pro	Thr 120			Glu		Gln 125	Lys	Ala	Trp

Ala	Leu 130	Asn	Leu	Asn	Gly	Phe 135	Asp	Val	Glu	Glu	.Ala 140		Ile	Leu	Arg
Leu 145	Ser	Gly	Lys	Pro	Gln 150	Asn	Ala	Pro	Glu	Gly 155	_	Gln	Asn	Arg	Leu 160
Lys	Val	Leu	Tyr	Ser 165	Gln	Lys	Ala	Thr	Pro 170	Gly	Ser	Ser	Arg	Lys 175	
Cys	Arg	Tyr	Ile 180	Pro	Ser	Leu	Pro	Asp 185	Arg	Ile	Leu	Asp	Ala 190	Pro	Glu
Ile	Arg	Asn 195	Asp	Tyr	Tyr	Leu	Asn 200	Leu	Val	Asp	Trp	Ser 205	Ser	Gly	Asn
Val	Leu 210	Ala	Val	Ala	Leu	Asp 215	Asn	Ser	Val	Tyr	Leu 220	Trp	Ser	Ala	Ser
Ser 225	Gly	Asp	Ile	Leu	Gln 230	Leu	Leu	Gln	Met	Glu 235	Gln	Pro	Gly	Glu	Tyr 240
Ile	Ser	Ser	Val	Ala 245	Trp	Ile	Lys	Glu	Gly 250	Asn	Ťyr	Leu	Ala	Val 255	Gly
Thr	Ser	Ser	Ala 260	Glu	Val	Gln	Leu	Trp 265	Asp	Val	Gln	Gln	Gln 270	Lys	Arg
Leu	Arg	Asn 275	Met	Thr	Ser	His	Ser 280	Ala	Arg	Val	Gly	Ser 285	Leu	Ser	Trp
	Ser 290					295					300				
His 305	Asp	Val	Arg		Ala .310	Glu	His	His	Val	Ala 315	Thr	Leu	Ser	Gly	His 320
Ser	Gln	Glu	Val	Cys 325	Gly	Leu	Àrg	Trp	Ala 330	Pro	Asp	Gly	Arg	His 335	Leu
	Ser		340					345			;		350	٠	
Gly	Glu	Gly 355	Gly	Trp	Val	Pro	Leu 360	Gln	Thr	Phe	Thr	Gln 365	His	Gln	Gly
Ala	Val 370	Lys	Ala	Val	Ala	Trp 375	Cys	Pro	Trp	Gln	Ser 380		Val	Leu	Ala
Thr 385	Gly	Gly	Gly	Thr	Ser 390	Asp	Arg	His	Ile	Arg 395	Ile	Trp	Asn	Val	Cys 400

				405	•				410	•				415	•
Ile	e Leu	Trp	Ser 420		His	Tyr	Lys	Glu 425		Ile	Ser	Gly	His		Phe
Ala	Gln	435			Val		440		Туг	Pro	Thr	Met 445		Lys	Val
Ala	Glu 450		Lys		His				Val	Leu	Ser 460		Thr	Met	Ser
Pro 465	Asp	Gly	Ala	Thr	Val: 470	Ala	Ser			Ala 475	Asp	Glu	Thr	Leu	Arg 480
Leu	Trp	Arg	Cys	Phe 485	Glu	Leu	Asp	Pro		Arg	Arg	Arg	Glu	Arg 495	Glu
Lys	Ala	Ser	Ala 500	Ala	Lys	Ser	Ser	Leu 505	Ile	His	Gln	Gly	Ile 510	Arg	
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<21 <21	0> 10 1> 20 2> PI 3> Ho	9. RT	sani	ane.					-		•				
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	0> 10 Glu		Pro	Ser 5	Ala	Ser	Ser	Val	Ala 10	Gly	Asp	Leu	Gly	Arg 15	Gly
Thr	Arg	Thr	Glu 20	Val	Glu	Ala	Arg	Ala 25	Ala	Arg	Pro	Gly	Ala 30	Glu	Ser
Ala	Pro	Ala 35	Ala	Ala	Met	Pro	Asp 40	Ser	Trp	Asp	Lys	Asp 45	Val	туг	Pro
Glu	Pro 50	Pro	Arg	Arg	Thr	Pro 55	Val	Gln	Pro	Asn	Pro 60	Ile	Val	Tyr	Met.
Met 65	Lys	Ala	Phe	Asp	Leu 70	Ile	Val	Asp	Arg	Pro 75	Val	Thr	Leu	Val	Arg 80

Glu Phe Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr His

Arg Gln Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp

105

95

85

100

Ser Gly Ala Cys Leu Ser Ala Val Asp Ala His Ser Gln Val Cys Ser

Ile Met Cys Met Tyr Glu Ala Glu Met Gln Trp Lys Arg Asp Tyr Lys 120 Val Asp Gln Glu Ile Ile Asn Ile Met Gln Asp Arg Leu Lys Ala Cys 135 Gln Gln Arg Glu Gly Gln Asn Tyr Gln Gln Asn Cys Ile Lys Glu Val 145 150 155 Glu Gln Phe Thr Gln Val Ala Lys Ala Tyr Gln Asp Arg Tyr Gln Asp 165 170 Leu Gly Ala Tyr Ser Ser Ala Arg Lys Cys Leu Ala Lys Gln Arg Gln 185 Arg Met Leu Gln Glu Arg Lys Ala Ala Lys Glu Ala Ala Ala Thr 195 200 Ser <210> 1039 <211> 219 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (153) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1039 Leu Ala Ala Pro Asp Leu Ser Lys Pro Arg Gly Tyr His Trp Asp Thr 15 Ser Asp Trp Met Pro Ser Val Pro Leu Pro Asp Ile Gln Glu Phe Pro Asn Tyr Glu Val Ile Asp Glu Gln Thr Pro Leu Tyr Ser Ala Asp Pro 40 Asn Ala Ile Asp Thr Asp Tyr Tyr Pro Gly Gly Tyr Asp Ile Glu Ser 50 55 Asp Phe Pro Pro Pro Glu Asp Phe Pro Ala Ala Asp Glu Leu Pro

Pro Leu Pro Pro Glu Phe Ser Asn Gln Phe Glu Ser Ile His Pro Pro

90

Ar	g As	p Me	t Pr	o Al	a Ala	a Gl	y Se	r Le	u Gly	y Sei	Ser	Ser	Arg	, Asn	Arg
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Glı	n Ar	g Ph	e As	n Lei	u Ası					) Asr	n Phe	Tyr	Pro	Leu	Asp
		11	5	•		-	120	0 -				1,25			
Met	Se:	r Gl	u Pr	o Gli	n Thr	Lys	s Gly	Thi	Gly	, Glu	a Asn	Ser	Thr	Cys	Arg
**	. 13(			-		135	ξ.			<b>-</b> ' :	140	• •	~:::	:	: :
Glu	Pro	) Hi	s Ala	a Pro	туг		Pro	Xaa							
145			• • • •		150				٠.	155	·	÷	· 1 ±	÷ .".	160
Pro	) Ala	ı Va	l Glu	1 Ser 165	Met	Pro	Met	Ser	Val 170		Ala	Ser	Thr	Ala 175	Ser
Cys	Ser	Ası	Va]	l Ser	Ala	Cys	Cys	Glu 185		Glu	Ser	Glu	Val 190	Met	Met
Ser	Asc	יעד נ	- Glu	Ser	· Glv	Acn	Acr	. G1.	u; ~	Dho	Cl.	61		<b></b>	
		199	5				200	1				205	vai	Thr	IIe
Pro	210		a Asp	Ser	Gln	Gln 215		Thr	Glu	Val					
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1	nsp			Tyr 5	Arg	ALG.		Pne	10	хаа		GLY		Pro 1	Leu
Ser	Ala			Ser			Phe		Leu	Gly	Сув	Leu	Leu 30	Gly i	Ala
Met	Glu	Ser 35	Asp	Phe	Tyr			Tyr	Tyr	Val	Gly	His:	Lys (	Gly I	Lys
Phe		His	Glu	Phe	Leu		Phe	Glu	Phe			Asp (	Gly 1	Lys I	.eu
	50	***				55					60				
Arg	Tyr	Ala	Asn	Asn	Ser	Asn	Tyr	Lys	Asn	Asp	Val N	Met :	lle A	Arg I	ys

65					70					75					80
Glu	Ala	туr	Val	His 85		Ser	Val	Met	Glu 90		Leu	Lys	Arg	Ile 95	
Asp	Asp	Ser	Glu 100	Ile	Thr	Lys	Glu	Asp 105		Ala	Leu	Trp	Pro 110	Pro	Pro
Asp	Arg	Val 115	Gly	Arg	Gln	Glu	Leu 120	Glu	Ile	Val	Ile	Gly 125		Glu	His
Ile	Ser 130	Phe	Thr	Thr	Ser	Lys 135	Ile	Gly	Ser	Leu	Ile 140	Asp	Val	Asn	Gln
Ser 145	Lys	Asp	Pro	Glu	Gly 150	Leu	Arg	Val	Phe	Tyr 155	Tyr	Leu	Val	Gln	Asp 160
Leu	Lys	Cys	Leu	Val 165	Phe	Ser	Leu	Ile	Gly 170	Leu	His	Phe	Lys	11e 175	_
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<210	0> 10	041													
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	2> PF 3> Ho		sapie	ens											
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	0> 10 Val		Asn	Ser	Ala	Arg	Ala	Gly	Ala	Ser	Tyr	Ala	Ala	Ala	Ala
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Val	Thr	Met	Ala 20	His	Tyr	Lys	Ala	Ala 25	Asp	Ser	Lys	Arg	Glu 30	Gln	Phe
Arg	Arg	Tyr 35	Leu	Glu	Lys	Ser-	Gly 40	Val	Leu	Asp	Thr	Leu 45	Thr	Lys	Val
Leu	Val 50	Ala	Leu	туr	Glu	Glu 55	Pro	Glu	Lys	Pro	Asn 60	Ser	Ala	Leu	Asp
Phe 65	Leu	Lys	His	His	Leu 70	Gly	Ala	Ala	Thr	Pro 75	Glu	Asn	Pro	Glu	Ile 80
Glu	Leu	Leu	Arg	Leu 85	Glu	Leu	Ala	Glu	Met 90	Lys	Glu	Lys	Tyr	Glu 95	Ala
Ile	Val	Glu	Glu 100	Asn	Lys	Lys	Leu	Lys 105	Ala	Lys	Leu	Ala	Gln 110	Tyr	Glu

Pro Pro Gln Glu Glu Lys Arg Ala Glu

		117					120								
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-210															
<210							: 1.								
<211:	> 25	53					-			•					
<212	> PF	የጥ								•					
<213	, uc	omo :	sapi	ens							-	1			- 1
<400	> 10	142		٠.											
Val A	aen.	Pro	Ara	17 a 1	7-0	Bro	N.r.a	505	1723	Acn	C1.	Cl.	T 011	C1-	T
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Ala 1	ile.	Asp	Leu	Phe-	Thr	ASD	Ala	Tle	LVS	Leu	Asn	Pro	Ara	Len	בומ
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			20					25					30		
Ile I	.eu	Tyr	Ala	Lys	Arq	Ala	Ser	Val	Phe	Val	Lys	Leu	Gln	Lvs.	Pro
		35					40					45			
				. ,			40			•		4.7			
Asn A	\la	Ala	Ile	Arg	Asp	Cys	Asp	Arg	Ala	Ile	Glu	Ile	Asn.	Pro	Asp
	50					55					60				
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	_														
Ser A	lla,	Gln	Pro	Tyr	Lys	Trp	Arg.	Gly	Lys	Ala	His	Arg	Leu	Leu	Gly
65					70					75					80
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His T	rp	GIU	GIÙ	Ala	Ala	His	Asp	Leu	Ala	Leu	Ala	Cys	Lys	Leu	Asp
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Tyr A		C1	7.00	212	c	×1 ~	Wat	T	T	C1	1753	C1 -	D===	3	
TATE	raħ	GIU		VIO.	ser.	ATA	WEr		n N 2	Giu	Val	GLii		MI G	ATG
			100					105	-				110		
Gln I	.VS.	Tie	Ala.	Glu	His	Arg.	Ara	T.ve.	Tyr	Glu	Ara	T.ve	Ara	Gla	Glu
	., -							2,5	- 1	Q1u			*****	Olu	GIU
		115					120					125			
Arg G	lu	Ile.	Lys	Glu	Arq.	Ile	Glu	Arq	Val	Lvs	Lys	Ala	Arg	Glu	Glu
	30		•			135	, "	-		-	140		•		
•			•			133		-			140				
His G	lu	Arg	Ala	Gln	Arg	Glu	Glu.	Glu	Ala	Arg	Arg	Gln	Ser	Gly.	Ala
145					150					155				_	160
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Gln T	'yr	Gly	Ser	Phe	Pro	Gly.	Gly	Phe	Pro	Gly	Gly	Met	Pro	Gly.	Asn
			•	165		. :			170					175	
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Phe P	ro	GIA.	G1y.	Met	Pro	Gly	Met	Gly.	Gly	GLY	Met	Pro	GIA	Met	Ala
			180					185			-		190		
C1	-	n	~1··	T	N	<b>~1</b>	T7 -	T	c	B	D	~1··	**- *	<b>.</b> .	
Gly M		•	GTÄ.	ren	ASN	GIU		ren	ser	ASP	LIO		var	ьéп	Ala
		195					200					205			
														-	

Ala Met Gln Asp Pro Glu Val Met Val Ala Phe Gln Asp Val Ala Gln 210 215 220

Asn Pro Ala Asn Met Ser Lys Tyr Gln Ser Asn Pro Lys Val Met Asn 225 230 235 240

Leu Ile Ser Lys Leu Ser Ala Lys Phe Gly Gln Ala 245 250

<210> 1043

<211> 343

<212> PRT

<213> Homo sapiens

<400> 1043

Met Lys Thr Cys Gln Glu Glu Lys Leu Met Gly His Leu Gly Val Val 1 5 10 15

Leu Tyr Glu Tyr Leu Gly Glu Glu Tyr Pro Glu Val Leu Gly Ser Ile 20 25 30

Leu Gly Ala Leu Lys Ala Ile Val Asn Val Ile Gly Met His Lys Met
35 40 45

Thr Pro Pro Ile Lys Asp Leu Leu Pro Arg Leu Thr Pro Ile Leu Lys 50 55 60

Asn Arg His Glu Lys Val Gln Glu Asn Cys Ile Asp Leu Val Gly Arg 65 70 75 80

Ile Ala Asp Arg Gly Ala Glu Tyr Val Ser Ala Arg Glu Trp Met Arg
85 90 95

Ile Cys Phe Glu Leu Leu Glu Leu Leu Lys Ala His Lys Lys Ala Ile 100 105 110

Arg Arg Ala Thr Val Asn Thr Phe Gly Tyr Ile Ala Lys Ala Ile Gly
115 120 125

Pro His Asp Val Leu Ala Thr Leu Leu Asn Asn Leu Lys Val Gln Glu 130 135 140

Arg Gln Asn Arg Val Cys Thr Thr Val Ala Ile Ala Ile Val Ala Glu 145 150 155 160

Thr Cys Ser Pro Phe Thr Val Leu Pro Ala Leu Met Asn Glu Tyr Arg 165 170 175

Val Pro Glu Leu Asn Val Gln Asn Gly Val Leu Lys Ser Leu Ser Phe

			180					185					190		
Leu	Phe	Glu 195				Glu									
mb =	D=a														
THE	210	Leu				215									
Gln	Thr	Ala	Ser	A1=	V = 1	Val	Gln	His	Met	Ser	T.eu	Glv	Val	Tur	GÌ 3
		11.1													
Phe	Glv	Cys	Glu	Asn	Ser	T.eu	Asn	His	t.eu	Len	Asn	Tvr	Val	Trn	Pro
	_	::		-								_		_	
Asn	Val	Phe	Glu	Thr	Ser	Pro	His	Val	Ile	Gln	Ala	Val	Met	Glv	Ala
		• • • • •									1	یت د.			
Leu	Glu	Gly	Leu	Arq	Val	Ala	Ile	Gly	Pro	Cys		Met	Leu	Gln	Tyr
		275													
Cys	Leu	Gln	Gly	Leu	Phe	His	Pro	Ala	Arg	Lys	Val	Arg	Asp	Val	Tyr
	29,0,		:		٠.	295	: <u>-</u>	٠, ٠ ؛	~ 3	÷	300	· .	11.4	*.15	; - ~ -
		Ile													
305	-		.***	٠.	310	<i>:-</i> '	•	<u>.</u>		315		.: ¬			320
Ala	His	Tyr	Pro	Arg	Ile	Tyr	Asn	Asp	Asp	Lys	Asn	Thr	Tyr	Ile	Arg
		: _	: ··/	325	1.5	41		J	330 ₋	12.19				335	
Tyr	Glu	Leu	Asp	Tyr	Ile	Leu									
			340												•
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<210	)> 10	044		•											
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	2> PF														
	HC	omo s	-			, ·				:	٠,,				٠,
<220			•					•			• •	•		٠.	
	l> s1	TE							•					,	
<22,2	2> (2	20.)	•	٠		. :				:				٠	•
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Leu		Arg		Tyr					Gly					Gly	
					Ala		Tyr.	Asn	Gly 10	Leu	Tyr	Arg			

Gly	Ala	Met 35	Ser	Cys	Ile	Asn	Leu 40		Thr	Val	Leu	Pro 45	Gly	Ser	Pro
Ser	Lys 50	Thr	Arg	Gly	Gln	Ile 55	Gln	Val	Ile	Leu	Gly 60	Pro	Met	Phe	Se
Gly .65	Lys	Ser	Thr	Glu	Leu 70	Met	Arg	Arg	Val	Arg 75	Arg	Phe	·Gln	Ile	A18
Gln	Tyr	Lys	Cys	Leu 85	Val	Ile	Lys	Tyr	Ala 90		Asp	Thr	Arg	Tyr 95	Sei
Ser	Ser	Phe	Cys 100	Thr	His	Asp	Arg	Asn 105	Thr	Met	Glu	Ala	Leu 110	Pro	Ala
Cys	Leu	Leu 115	Arg	Asp	Val	Ala	Gln 120	Glu	Ala	Leu	Gly	Val 125	Ala	Val	Ile
Gly	11e 130	Asp	Glu	Gly	Gln	Phe 135	Phe	Pro	Asp	Ile	Val 140	Glu	Phe	Cys	Glu
Ala 145	Met	Ala	Asn	Ala	Gly 150	Lys	Thr	Val	Ile	Val 155	Ala	Ala	Leu	Asp	Gly 160
Thr	Phe	Gln	Arg	Lys 165	Pro	Phe	Gly	Ala	Ile 170	Leu	Asn	Leu	Val	Pro 175	Leu
Ala	Glu	Ser	Val 180	Val	Lys	Leu	Thr	Ala 185	Val	Cys	Met	Glu	Cys 190	Phe	Arg
Glu	Ala	Ala 195	Tyr	Thr	Lys	Arg	Leu 200	Gly	Thr	Glu	Lys	Glu 205	Val	Glu	Val
Ile	Gly 210	Gly	Ala	Asp	Lys	Tyr 215	His	Ser	Val	Суѕ	Arg 220	Leu	Cys	Tyr	Phe
Lys 225	Lys	Ala	Ser	Gly	Gln 230	Pro	Ala	Gly	Pro	Asp 235	Asn	Lys	Glu	Asn	Cys 240
Pro	Val	Pro		Lys 245	Pro	Gly	Glu	Ala	Val 250	Ala	Ala	Arg	Lys	Leu 255	Phe
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Lys Val Trp His Pro Trp Arg Gly Gly Ala Pro Gly Trp Ala Gly Ser
                        55 .
Arg Trp Pro Gly Ala Trp Arg Cys Ala Ala Gly Ala Cys Met Ala Pro
                    70
                       75 80
Arg Gly Thr Gln Ala Glu Glu Ser Pro Phe Val Gly Asn Pro Gly Asn
Ile Thr Gly Ala Arg Gly Leu Thr Gly Thr Leu Arg Cys Gln Leu Gln
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Val Gln Gly Glu Pro Pro Glu Val His Trp Leu Arg Asp Gly Gln Xaa
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Leu Glu Leu Ala Asp Ser Thr Gln Thr Gln Val
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Gly Gly Glu Ser Val Ser Ser Trp Glu Glu Gln Asn Arg Gly Gly
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20 25

Ala Pro Ala Gly Ala Gly Gly Pro Thr Met Ala Ile Arg Lys Lys

40

Ser	Thr 50	Lys	Ser	Pro	Pro	Val 55	Leu	Ser	His	Glu	Phe 60		Leu	Gln	Asn
His 65	Ala	Asp	Ile	Val	Ser 70	Cys	Val	Ala	Met	Val 75	Phe	Leu	Leu	Gly	Leu 80
Met	Phe	Glu	Ile	Thr 85	Ala	Lys	Ala	Ser	Ile 90	Ile	Phe	Val	Thr	Leu 95	Gln
Tyr	Asn	Val	Thr 100	Leu	Pro	Ala	Thr	Glu 105	Glu	Gln	Ala	Thr	Glu 110	Ser	Val
Ser	Leu	туг 115	Tyr	Tyr	Gly	Ile	Lys 120	Asp	Leu	Ala	Thr	Val 125	Phe	Phe	Tyr
Met	Leu 130	Val	Ala	Ile	Ile	Ile 135	His	Ala	Val	Ile	Gln 140	Glu	Tyr	Met	Leu
Asp 145	Lys	Ile	Asn	Arg	Arg 150	Met	His	Phe	Ser	Lys 155	Thr	Lys	His	Ser	Lys 160
Phe	Asn	Glu	Ser	Gly 165	Gln	Leu	Ser	Ala	Phe 170	Tyr	Leu	Phe	Ala	Cys 175	Val
Trp	Gly	Thr	Phe 180	Ile	Leu	Ile	Ser	Glu 185	Asn	Tyr	Ile	Ser	Asp 190	Pro	Thr
Ile	Leu	Trp 195	Arg	Ala	Tyr	Pro	His 200	Asn	Leu	Met	Thr	Phe 205	Gln	Met	Lys
Phe	Phe 210	Tyr	Ile	Ser	Gln	Leu 215	Ala	Tyr	Trp	Leu	His 220	Ala	Phe	Pro	Glu
Leu 225	Tyr	Phe	Gln	Lys	Thr 230	Lys	Lys	Glu	Asp	11e 235	Pro	Arg	Gln	Leu	Val 240
			Leu	245					250	_				255	
			Leu 260					265				-	270		
Phe	Leu	Phe 275	His	Ile	Ser		Leu 280	Phe	Tyr	Phe	Ser	Asn 285	Glu	Lys	Tyr
	290		Phe			295					300				
Leu 305	Thr	Leu	Ile	Leu	Ser 310	Val	Leu	Thr	Val	Gly 315	Phe	Gly	Leu	Ala	Arg 320

Ala Glu	Asn Gl	n Lys 325	Leu Ası	Phe	Ser	Thr 330	Gly	Asn	Phe	Asn	Val 335	
Ala Val	Arg Il		Val Le	ı Ala	Ser 345	Ile	С <b>уз</b>	Val	Thr	Gln 350	Ala	Phe
Met Met	Trp Ly	s Phe	Ile Ası	Phe 360	Gln		Arg		Trp 365	Arg	Glu	His
Ser Ala 370	Phe Gl	n Ala		val					Thr	Val	Thr	Lys
		. •							٠.		~	
Gly Arg 385	Ser Se		390				305					400
303			- 7	:	1Y	. 21	3,3,3	172	F 1. 1		٠.	`
Thr Ser	Asn Va		Asp Ser	Pro			Lys	Lys	Ğlu	Lys	Ser	Ser
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Arg Ile Glu Asp Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe

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Gln	Asp 130		Val	Asp	Ala	Val 135		Ala	Glu	Lys	Gly 140		Leu	Leu	Leu
Ala 145	Ser	Leu	Arg	Gln	Met 150	Lys	Lys	Thr	Arg	Gly 155		Leu	Leu	Ala	Leu 160
Glu	Arg	Lys	Asp	His 165	Ser	Gly	Gln	Val	Phe 170		Val	Val	Ser	Asn 175	-
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Ile	Thr 210	Leu	Phe	Val	Gln	Glu 215	Asp	Arg	Ala	Gln	Leu 220	туr	Ile	Asp	Cys
Glu 225	Lys	Met	Glu	Asn	Ala 230	Glu	Leu	Asp	Val	Pro 235	Ile	Gln	Ser	Val	Phe 240
Thr	Arg	Asp	Leu	Ala 245	Ser	Ile	Ala	Arg	Leu 250		Ile	Ala	Lys	Gly 255	Gly
Val	Asn	Asp	Asn 260	Phe	Gln	Gly	Val	Leu 265	Gln	Asn	Val	Arg	Phe 270	Val	Phe
Gly	Thr	Thr 275	Pro	Glu	Asp	Ile	Leu 280	Arg	Asn	Lys	Gly	Cys 285	Ser	Ser	Ser
rhr	Ser 290	Val	Leu	Leu	Thr	Leu 295	Asp	Asn	Asn	Val	Val 300	Asn	Gly	Ser	Ser
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Ala	Ile	Cys	Gly	11e 325	Ser	Cys	Asp	Glu	Leu 330	Ser	Ser	Met	Val	Leu 335	Glu
Leu	Arg	Gly	Leu 340	Arg	Thr	Ile	Val	Thr 345	Thr	Leu	Gln	Asp	Ser 350	Ile	Arg
.ys	Val	Thr 355	Glu	Glu	Asn	Lys	Glu 360	Leu	Ala	Asn	Glu	Leu 365	Arg	Arg	Pro
Pro	Leu 370	Cys	Tyr	His	Asn	Gly 375	Val	Gln	Tyr	Arg	Asn 380	Asn	Glu	Glu	Trp
hr	Val	Asp	Ser	Cys	Thr	Glu	Cys	His	Cys	Gln	Asn	Ser	Val	Thr	Ile

385					390				•	395			•		400
Cys	Lys	Lys	Val	Ser 405	Cys	Pro	Ile	Met	Pro 410	Cys	Ser	Asn		Thr 415	
Pro	Asp		Glu 420	Cys	Cys	Pro	Arg	Cys 425		Pro	Ser		Ser 430		Asp
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Gly	Asn 450	Gly	Ile	Gln	Gln	Arg 455	Gly	Arg	Ser	Cys	Asp 460	Ser	Ala	Gln	Gln
	Met														
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Ile	Lys	Ala 35	Gln	Tyr	Asp		Ile 40	Val	Thr	Arg	Ser	Arg 45	Ala	Glu	Ala
Glu	Ser 50	Trp	Tyr	Arg	Ser		Cys		Glu	Met	Lys 60	Ala	Thr	Val	Ile

Arg 65	His	Gly	Glu	Thr	Leu 70	Arg	Arg	Thr	Lys	Glu 75	Glu	Ile	Asn	Glu	Leu 80
Asn	Arg	Met	Ile	Gln 85	Arg	Leu	Thr	Ala	Glu 90	Val	Glu	Asn	Ala	Lys 95	Cys
Gln	Asn	Ser	Lys 100	Leu	Glu	Ala	Ala	Val 105	Ala	Gln	Ser	Glu	Gln 110	Gln	Gly
Glu	Ala	Ala 115	Leu	Ser	Asp	Ala	Arg 120	Cys	Xaa	Leu	Ala	Glu 125	Leu	Glu	Gly
Ala	Leu 130	Gln	Lys	Ala	Lys	Gln 135	Asp	Met	Ala	Cys	Leu 140	Ile	Arg	Glu	Tyr
Gln 145	Glu	Val	Met	Asn	Ser 150	Lys	Leu	Gly	Leu	Asp	Ile	Glu	Ile	Ala	Thr 160
Tyr	Arg	Arg	Leu	Leu 165	Glu	Gly	Glu	Glu	Gln 170	Arg	Leu	Cys	Glu	Gly 175	
Gly	Ala	Val	Asn 180	Val	Cys	Val	Şer	Ser 185	Xaa	Arg	Gly	Gly	Val 190	Val	Cys
Gly	Asp	Leu 195	Cys	Val	Ser	Gly	Xaa 200	Arg	Pro	Val	Thr	Ala 205	Val	Ser	Ala
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Gly Ser Leu Met Ala Ala Thr Cys Glu Ile Ser Asn Ile Phe Ser Asn

Tyr Phe Ser Ala Met Tyr Ser Ser Glu Asp Ser Thr Leu Ala Ser Val

60

40

55

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Gľu	Gln	Pro	Gln 100	Phe	Trp	Ser	Lys	Thr 105	Gln	Val	Leu	Asp	Trp	Ile	Ser
туг	Gln	Val 115	Glu	Lys	Asn	Lys	Tyr 120	Asp	Ala	Ser		11e 125	Asp	Phe	Ser
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Leu 145	Arg	-			Gly 150					155				,	160
Arg	•		Thr	Ser 165	Ser	Ser	Ser	Asp	Glu 170						
Leu	Leu	Glu			Gly			Phe 185	Gln		Ala	Leu	Asp 190	Pro	Gly
Pro	Phe	Asp 195	Gln		Ser		200	Ala		Glu	Leu	Leu 205	Asp	Asp	Gly
Gln	Gln 210	Ala	Ser	Pro	Tyr		Pro				Gly 220	Ala	Gly	Ala	Pro
Ser 225	Pro	Gly	Ser	Ser	Asp 230	Val	Ser	Thr	Ala	Gly 235	Thr	Gly	Ala	Ser	Arg 240
Ser	Ser	His	Ser	Ser 245	Asp	Ser	Gly	Gly	Ser 250	Asp	Val	Asp	Leu	Asp 255	Pro
Thr	Asp	Gly	Lys 260	Leu	Phe	Pro	Ser	Asp 265	Gly	Phe	Arg	Asp	Cys 270	Lys	Lys
Gly	Asp	275			Gly	Lys	Arg 280		Arg			285		Lys	Leu
Ser	Lys 290		Tyr	Trp	Asp	295		Glu	Gly			Ser		His	Ala
Pro	Arg	Gly	Thr	His	Leu 310			Phe		Arg 315	Asp	Ile	Leu	Ile	His 320
Pro	Glu	Leu	Asn	Glu 325	Gly			Lys	Trp 330	Glu	Asn	Arg	His	Glu 335	Gly

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Lys Lys Lys Asn Ser Asn Met Thr Tyr Glu Lys Leu Ser Arg Ala Met
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Arg Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg
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<223> Xaa equals any of the naturally occurring L-amino acids
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Arg Leu Pro Thr Leu Arg Ala Trp Ser Leu Pro Gln Gly Pro Leu Ser
Trp Ala Met Ala Xaa Lys Gly Val Leu Gly Pro Gly Gln Leu Gly Ala
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65
                    70
Glu Gly Ala Glu Ala Xaa Cys Gly Val Ala Pro Gln Ala Arg Ile Thr
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Trp	Val 130			Ala	Ala	His 135	Cys	Phe	Pro	Ser	Glu 140	His	His	Lys	Glu
Ala 145		Glu	Val	Lys	Leu 150	. Gly	Ala	His	Gln	Leu 155		Ser	Tyr	Ser	Glu 160
	Ala	_		165	Thr	Leu	Lys	Asp	Ile 170		Pro	His	Pro	Ser 175	-
	1.		180					Ile 185					190		-
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Pro	Ile		Phe	Ser	Arg	Tyr		Arg	Pro	Ile	Cys	Leu	Pro	Ala	Ala
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ASII	210	Ser	Pile	PIO	ASII	215	Leu	His	cys	Thi	220	THE	GIY	тгр	GTA
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His	Val							Leu						-	
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Leu	Glu	Val	Pro	Leu 245	Ile	Ser	Arg	Glu	Thr 250	Trp	٠٠,				
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vul	Asp	Ile	Arg 20	Arġ	Årg	Ser	Ser	Arg 25	Arg	Pro	Arg	Glu	Pro 30	Pro	Gly
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Pro	Ser	Arg 35	20 Arg	Arģ	Arg	Årg	Arg 40	25	Pro	Asp	Pro	Arg 45	30 Thr	Met	Pro

65					70					75			•		80
Ile	Glu	Arq	Tyr	Lys	Gly	Glu	Lys	Gln	Leu	Pro	Val	Leu	Asp	Lvs	Thr
		-	-	_	_	. •	_		90			•		95	
Lys					_					Ser	Glu	Leu	Ile	Lys	Ile
			100	•	• •		••	105			* .	. 9	110	. • • •	
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Val	Asn	Gly	His	Ser	Met	Val	Ser	Val	Ser	Thr	Pro	Ile	Ser	Glu	Val
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Ala	Pro	Glu	Gln 20	Pro	Ala	Ser	Leu	His 25	Arg	Leu	Leu	Ser	Val 30	Leu	Ser
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Pro	Arg	Ala 35	Ala	Ile	Ala	Val	Met 40	Leu	Gly	Ala	Ala	Leu 45	Arg	Arg	Cys
	••••				<b></b>	•				.:"					<b>a</b>
АІА	50	Ата	Ala	Thr	Thr	55	Ala	Asp	Pro	Arg	60	Leu	Leu	HIS	Ser
A 1 =	Ara	 Thr	Pro	G3 v	Pro	Ala	 Vál	Δl =	Tla	Gla	Sor	V=1	224	Cur	Tu-
65	ALG	1111			70	AIG	,	NIG		75	ser	vai	ALG	cys	80
Ser	His	G] v	Ser	Gln	Glu	Thr	Asp	Glu	G} 11	Phe	Asp	Ala	Ara	Tro	Val
		,		85					90		<b>-</b>			95	
Thr	Tyr	Phe	Asn	Lys	Pro	Asp	Ile	Asp	Ala	Trp	Glu	Leu	Arg	Lys	Gly
			100					105					110		
112	Aen	Th-	T.e.s			Tyr	\en		-			Dra		Tla	Tle

Asp Ala Ala 130	Leu Arg	Ala Cy	-	Arg	Leu	Asn	Asp 140	Phe	Ala	Ser	Thr
Val Arg Ile 145	Leu Glu	Val Va 150	l Lys	Asp	Lys	Ala 155	Gly	Pro	His	Lys	Glu 160
Ile Tyr Pro	Tyr Val		n Glu	Leu	Arg 170	Pro	Thr	Leu	Asn	Glu 175	Leu
Gly Ile Ser	Thr Pro	Glu Gl	u Leu	Gly 185	Leu	Asp	Lys	Val			
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Ser Gly Leu	Arg Ala 20	Ser Gl	y Glu	Met 25	Leu	Leu	Pro	Leu	Leu 30	Leu	Leu
Leu Pro Met	Cys Trp	Ala Va	1 Glu 40	Val	Lys	Arg	Pro	Arg 45	Gly	Val	Ser
Leu Thr Asn	His His	Phe Ty		Glu	Ser	Lys	Pro 60	Phe	Thr	Cys	Leu
Asp Gly Ser	Ala Thr	Ile Pr	o Phe	Asp	Gln	Val 75	Asn	Asp	Asp	туг	Cys <b>80</b>
Asp Cys Lys	Asp Gly 85	Ser As	p Glu	Pro	Gly 90	Thr	Ala	Ala	Cys	Pro 95	Asn
Gly Ser Phe	His Cys	Thr As	n Thr	Gly 105	Tyr	Lys	Pro	Leu	Tyr 110	Ile	Pro
Ser Asn Arg 115	Val Asn	Asp Gl	y Val 120	Cys	Asp	Суз	Cys	Asp 125	Gly	Thr	Asp
Glu Tyr Asn 130	Ser Gly	Val Ile		Glu	Asn	Thr	Cys 140	Lys	Glu	Lys	Gly
Arg Lys Glu	Arg Glu	Ser Le	ı Gln	Gln	Met	Ala 155	Glu	Val	Thr	Arg	Glu 160

GIY	Pne	e Arg	Leu	165			Leu		170	Asp	Trp	Lys	Lys	175	_
Glu			Gln 180	Lys	Lys	Leu	Ile	Glu 185	Leu	Gln	Ala	Gly	Lys 190		Ser
											:				
		195					200			Val		205			
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Lys	Pro 210		Arg	Glu	Ala	Lys 215		Gln	His	Gln	Lys 220		Trp	Glu	Glu
1.00	٠.	· , · .	: ' .		. :		4,5	2	$A \pm \phi$	: :	7				1 : : :
Gln	Leu	Ala	Ala	Ala	Lys	Ala	Gln	Gln	Glu	Gln	Glu	Leu	Ala	Ala	Asp
225					230					235					240
٠.	:		· · ·		-'		Ole	· . <u>:</u>	1.5	GA.	F: 2	7.2	r diar	1. :	
Ala	Phe	Lys	Glu	Leu 245	Asp	Asp	Asp	Met	Asp 250	Gly	Thr	Val	Ser	Val 255	
, ;		<i>:</i> . ·			Ago	Gi.	7.50	I-pa	Jiu	3.15	1.12		2 22		
			260			•		265		Asp			270		
·				- :::	. 3		Ţ. ·	1::	7 2	13.1				٠	
Ser	Glu	Ala 275	Glu	Ala	Gln	Ala	Leu 280	Leu	Ser	Gly	Asp	Thr 285	Gln	Thr	Asp
	٠.		- 1.5	-	·	-12	7	Paul		10	1.5	1 ,			٠
Ala	Thr 290	Ser	Phe	Tyr	Asp	Arg 295	Val	Trp	Gly	Pro	Gly 300	Gly	Ala	Gly	Pro
	٠.		:	. 🖫	. = }	~ .	11.	. :	÷		٠,		٠,	. 75	• :
His 305		Gln								Gly 315					
-		1	i eige	· · · · ·		7			- "						• :
•															
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<21	1> 1	38										•			
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Val 1	Trp	Lys		5	Val	Trp	Ser	His	Ser 10	Ser	Leu	Ile	Thr	Leu 15	Leu
	Ile	Leu	Glu		Lys	Gly	Ser	Lys	Thr	Tyr	Thr	His	Thr	Pro	Thr
			20					25					30		
		-	****	.1	·* ··				77 . 7	•				٠٠.	
Gln	Ser	Asn 35	Ser	Val:	Phe	Lys	Gln 40	Ile	Pro	Arg		Leu 45	_		_
						٠,				•					٠.
Leu	Asn 50	Lys	Ala			55		Ser	Leu	Leu	Thr 60	His	Asn	Glu	Asn
Mo+	1751	A 1 -	T	-	Aco	 Glv	val.	T		mb-	- -	T ***	Dha.	G1 =	Wo+
uc C	val	wrg	гåг	val	vab	GIU	val	пλа	Sel	Thr	TTE	nys.	rne	GTU	いらた

65					70					75	i				80
Lys	Lys	Val	Leu	Cys 85		Ala	Val	Ala	Val 90		' His	Val	. Lys	Met 95	
Asp	Asp	Glu	Leu 100		туг	Asn	Ile	His 105		Ala	Val	Asn	Phe		Va]
Ser	Leu	Leu 115	Lys	Lys	Asn	Trp	Gln 120		Val	Arg	Ala	Leu 125		Ile	Lys
Ser	Thr 130		Gly	Lys	Pro	Gln 135	Arg	Leu	Tyr						
	0> 1: 1> 2:														
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Thr	Pro	Pro	Asp 20	Pro	Gly	Ala	Ala	Ser 25	Ala	Thr	Ala	Thr	Ala 30	Pro	Ala
Pro	Ala	Ala 35	Ala	Arg	Arg	Gly	Glu 40	Ala	Met	Ala	Lys	Val 45	Ser	Val	Leu
Asn	Val 50	Ala	Val	Leu	Glu	Asn 55	Pro	Ser	Pro	Phe	His 60	Ser	Pro	Phe	Arg
Phe 65	Glu	Ile	Ser	Phe	Glu .70	Cys	Ser	Glu	Ala	Leu 75	Ala	Asp	Asp	Leu	Glu 80
Trp	Lys	Ile	Ile	Tyr 85	Val	Gly	Ser	Ala	Glu 90	Ser	Glu	Glu	Phe	Asp 95	Gln
Ile	Leu	Asp	Ser 100	Val	Leu	Val	Gly	Pro 105	Val	Pro	Ala	Gly	Arg 110	His	Met
Phe	Val	Phe 115	Gln	Ala	Asp	Ala	Pro 120	Asn	Pro	Ser	Leu	Ile 125	Pro	Glu	Thr
Asp	Ala 130		Gly	Val	Thr	Val 135	Val	Leu	Ile	Thr	Cys 140	Thr	Tyr	His	Gly
Gln 145	Glu	Phe	Ile		Val 150					Asn 155		Glu	Tyr		Asn 160

Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp F 165 170	he Ser Gln Leu 175
Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr A 180 185	rg Phe His Ile 190
Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile G 195 200 2	lu Thr Gln Asp 05
	ma Tla Iun Glu
Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr P 210 215 220	ro lie Lys Gly
210 215 220	
Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro G	lu Asn Ser Met
225' les -pusts and 230'd reservoit . (235'd a 19	
Asp Cys Ile	•
T. STOR	
in la la la la la la la la la la la la la	STEET AND THE SECOND
<210> 1056	
<211> 211-	
<212> PRT	
<213> Homo-sapiens.	VIII 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<220>	
<221> SITE: The first flag over Manager Alexander and	•. : :
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<222> (8) <223> Xaa equals any of the naturally occurring L	-amino acids
<222> (8) <223> Xaa equals any of the naturally occurring L	-amino acids
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<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly P:</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly P:</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pro</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pro 1</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pro</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pr</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pr</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45  ro Phe Asn Pro
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pr</pre>	-amino acids  ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45  ro Phe Asn Pro
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pr</pre>	ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45  ro Phe Asn Pro sn Leu Lys Gln 80
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly Pro 1</pre>	ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45  ro Phe Asn Pro sn Leu Lys Gln 80  sp Val Glu Lys
<pre>&lt;222&gt; (8) &lt;223&gt; Xaa equals any of the naturally occurring L &lt;400&gt; 1056 His Glu Pro Arg Arg Leu Leu Xaa Asp Ala Glu Gly P:</pre>	ro Glu Glu Thr 15  la Ala Glu Val 30  ro Asn Phe Ser 45  ro Phe Asn Pro sn Leu Lys Gln 80  sp Val Glu Lys 95

			100					105	i				110	)	
Met	Pro	Ser 115		Tyr	Tyr	Met	Glu 120		Thr	Lys	Leu	125		ı Asr	His
Ala	Ser 130	Asp	Asn	Ile	Pro	Lys 135		Asp	Glu	lle	140		Leu	Val	. Lys
Asp 145	Меt	Trp	Asp	Thr	Arg 150		Ala	Lys	Leu	Arg 155		Ser	Ala	Asp	Ser 160
Phe	Val	Arg	Gln	Gln 165	Glu	Ala	His	Ala	Lys 170		Asp	Asn	Leu	Thr 175	
Met	Glu	Ile	Asn 180	Thr	Ser	Gly	Thr	Phe 185		Thr	Gln		Leu 190	Asn	His
Met	Tyr	Lys 195	Leu	Arg	Thr	Asn	Leu 200	Gln	Pro	Leu	Glų	Ser 205		Gln	Ser
Gln	Asp 210	Phe													
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<213	3> Ho	omo s	sapie	ens											
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	•	,	quals	s any	of	the	nati	ıral	Ly o	ccuri	ring	L-a	mino	acio	ds
	)> 10														
Val 1	Ile	Leu	Gly	Ala 5	Gly	Leu	Arg	Asp	Lys 10	Asp	Met	Trp	Ile	Pro 15	Val
Val	Gly	Leu	Pro 20	Arg	Arg	Leu	Arg	Leu 25	Ser	Ala	Leu	Ala	Gly 30	Ala	Gly
Arg	Phe.	Cys 35	Ile	Leu	Gly	Ser	Glu 40	Ala	Ala	Thr	Arg	Lys 45	His	Leu	Pro
Ala	Arg 50	Asn	His	Cys	Gly	Leu 55	Ser	Asp	Ser	Ser	Pro 60	Gln	Leu	Trp	Pro
Glu 65	Pro	Asp	Phe	Arg	Asn 70	Pro	Pro	Arg	Lys	Ala 75	Ser	Lys	Ala	Ser	Leu 80

Asp	Phe	Lys	Arg	Tyr 85		Thr	Asp	Arg	Arg 90		Ala	Glu	Thr	Leu 95	Ala
Gln	Ile	туг	Leu 100	Gly	Lys	Pro	Ser	Arg 105		Pro	His	Leu	Leu 110	Leu	
Суз	Asn	Pro					Leu 120					125			
Ala	Lys 130		Val	Ala	Leu	Glu 135		Asp	Lys	Thr	Phe 140	Ile	Pro	His	Leu
145			Gly		Asn 150	Leu	Asp	Gly	Lys	Leu 155	Arg	Val	Ile	His	Cys 160
Asp			Lys	165	Asp	Pro	Arg	Ser	Gly 170	Gly	Val.	lle	Lys	Pro 175	Pro
Ala	Met						Phe								
Pro	Trp	Thr 195	Ala				Leu 200								
Arg	Gly 210	Glu	Lys	Arg	Ala	Leu 215	Trp	Lys	Leu	Ala	Tyr 220	Asp	Leu	Tyr	Ser
Cys 225		Ser	Ile	Tyr	Lys 230	Phe	Gly	Arg	Ile	Glu 235	Val	Asn	Met	Phe	11e 240
Gly	Glu [.]		Glu			Lys	Leu	Met	Ala 250	Asp	Pro	Gly	Asn	Pro 255	Asp
Leu	Tyr	His	Val 260		Ser	Val	Ile	Trp 265	Gln	Leu	Ala	Cys	Glu 270	Ile	Lys
Val	Leu	His 275	Met	Glu	Pro	Trp	Ser 280	Ser	Phe	Asp	Ile	Ту <u>г</u> 285	Thr	Arg:	Lys
Gly	Pro 290	Leu	Glu	Asn	Pro	Lys 295	Arg	Arg	Glu	Leu	Leu 300	Asp	Gln	Leu.	Gln
Gln 305	Lys	Leu	Tyr	Leu	Ile 310	Gln	Met	Ile	Pro	Arg 315	Gln	Asn	Leu	Phe	Tիբ 320
Lys	Asn	Leu	Thr	Pro 325	Met	Asn	Tyr	Asn	Ile 330	Phe	Pḥe	His	Leu	Leu 335	Lys
His	Cys	Phe	Gly 340	Arg	Arg	Xaa	Ala	Thr 345	Val	Ile	Asp	His	Leu 350	Arg	Ser

Leu Thr Pro Leu Asp Ala Arg Asp Ile Leu Met Gln Ile Gly Lys Gln 355 360 365

Glu Asp Glu Lys Val Val Asn Met His Pro Gln Asp Phe Lys Thr Leu 370 375 380

Phe Glu Thr Ile Glu Arg Ser Lys Asp Cys Ala Tyr Lys Trp Leu Tyr 385 390 395 400

Asp Glu Thr Leu Glu Asp Arg 405

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<211> 89

<212> PRT

<213> Homo sapiens

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Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu 20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg 35 40 45

Trp Gly Val Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser 50 55 60

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<400> 1059

Gly Thr Arg Pro Ser Ser Cys Ser Gln Thr Glu Ala Gln Pro Pro Ser 1 5 10 15

Pro Val Ser Ile Thr Ser Ala Ala Ser Met Ser Asp Lys Leu Pro Tyr
20 25 30

Lys	Val	Ala 35	Asp	Ile	Gly	Leu	Ala 40	Ala	Trp	Gly	Arg	Lys 45	Ala	Leu	Asp
Ile	Ala 50	Glu	Asn	Glu	Met	Pro 55	Gly	Leu	Met	Arg	Met 60	Arg	Glu	Arg	Tyr
65			_		70					75					His 80
	Thr	Val	Glu	Thr 85	Ala	Val	Leu	Ile	Glu 90		Leu	Val	Thr	Leu 95	Gly
	Glu	Val	Gln 100	Trp	Ser	Ser	Cys	Asn 105	Ile		Ser	Thr	Gln 110	Asp	His
	Ala	Ala 115	Ala	Ile	Ala	Lys	Ala 120	Gly	Ile		Val	Tyr 125	Ala	Trp	Lys
Gly		Thr	Asp	Glu	Glu	Tyr 135	Leu	Trp	Cys						Tyr
Phe 145	Lys					Asn						Gly	Gly	Asp	Leu 160
Thr		Leu	Ile	His 165	Thr	_	Tyr	Pro	Gln 170	Leu			_	Ile 175	Arg
Gly		Ser	Glu 180	Glu	Thr	Thr	Thr	Gly 185	Val	His	Asn			Lys	
_ :: Met	Ala			Ile	Leu					Ile		Val 205	Asn	Asp	Ser
	Thr 210		Ser		Phe		Asn	Leu	Tyr	Gly	Cys 220	Arg	Glu	Ser	Leu
Ile 225	Asp	Gly	Ile	Lys	Arg 230	Ala	Thr	Asp	Val	Met 235	Ile	Ala	Gly	Lys	Val 240
Ala	Val	Val	Ala	Gly 245	Tyr	Gly	Asp	Val	Gly 250	Lys	Gly	Cys	Ala	Gln 255	Ala
Leu	Arg		260		Ala			265		Thr			270		
Asn	Ala	Leu 275	Gln	Ala		Met	Glu 280	Gly	Tyr	Glu	Val	Thr 285	Thr	Met	Asp
Glu	Ala 290	Cys	Gln	Glu						Thr					

	305	Ile	Ile	Leu	Gly	Arg 310	His	Phe	Glu	Gln	Met 315	Lys	Asp	Asp	Ala	11∈ 320
	Val	Cys	Asn	Ile	Gly 325	His	Phe	Asp	Val	Glu 330	Ile	Asp	Val	Lys	Trp 335	Leu
	Asn	Glu	Asn	Ala 340	Val	Glu	Lys	Val	Asn 345		Lys	Pro	Gln	Val 350	Asp	Arg
	Tyr	Arg	Leu 355	Lys	Asn	Gly	Arg	Arg 360	Ile	Ile	Leu	Leu	Ala 365	Glu	Gly	Arg
		Val 370	Asn	Leu	Gly	Cys	Ala 375	Met	Gly	His	Pro	Ser 380	Phe	Val	Met	Ser
	Asn 385		Phe	Thr	Asn	Gln 390	Val	Met	Ala	Gln	Ile 395	Glu	Leu	Trp	Thr	His 400
	Pro	,Asp	Lys	Tyr	Pro 405	Val	Gly	Val	His	Phe 410	Leu	Pro	Lys	Lys	Leu 415	Asp
	Glu	Ala	Val	Ala 420	Glu	Ala	His	Leu	Gly 425	Lys	Leu	Asn	Val	Lys 430	Leu	Thr
	Lys	Leu	Thr 435	Glu	Lys	Gln	Ala	Gln 440	Tyr	Leu	Gly	Met	Ser 445	Суз	Asp	Gly
	Pro	Phe 450	Lys	Pro	Asp	His	Tyr 455	Arg	Tyr							
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		?> PF					•									
		3> Hc		apie	ens											
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	Glu 1	Gly _.	Val	Met	Ala 5	Asp	Gly	Gln	Val	Ala 10	Glu	Leu.	Leu	Leu	Arg 15	Arg
٠.	Leu	Glu	Ala	Ser 20	Asp	Gly	Gly	Leu	Asp 25	Ser	Ala	Glu	Leu	Ala .30	Ala	Glu
	Leu	Gly	Met 3,5	Glu	His	Gln	Ala	Val 40.	Val	Gly	Ala	Val	Lys 45	Ser	Leu	Gln
	Ala	Leu	Gly	Glu	Val	Ile	Glu	Ala	Glu	Leu	Arg	Ser	Thr	Lys	His	Trp

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60 .

Glu 65		Thr	Ala	Glu	Gly 70	Glu	Glu	Ile	Ala	Arg 75	Glu	Gly	Ser	His	Glu 80
	Arg					Ile									Glu
Leu	Met :	Arg	Leu 100	Pro	Ser	Gly	Lys	Val 105	Gly	Phe	Ser	Lys	Ala 110	Met	Ser
Asn	Lys	Trp 115	Ile Ha	Arg	Val	Asp	Lys 120	Ser	Ala	Ala	Asp	Gly 125	Pro	Arg	Val
Phe	Arg 130	Val	Val	Asp	Ser	Met 135	Glu	Asp	Glu	Val	Gln 140	Arg	Arg	Leu	Gln
	Val	Arg	Gly	Gly	Gln 150	Ala en	Glu	Lys	Leu	Gly 155	Glu	Lys	Glu	Arg	Ser 160
Glu	Leu	Arg	Lys	Arg 165	Lys ".	Leu	Leu	Ala 	Glu 170	Val	Thr	Leu ;;	Lys	Thr 175	Tyr
Trp	Val	Ser	Lys 180	Gly	Ser	Ala	Phe	Ser 185	Thr	Ser	Ile	Ser	Lys 190	Gln	Glu
Thr	Glu	Leu 195	Ser	Pro	:	Met	Ile 200	Ser	Ser	Gly	Ser	Trp 205	Arg	Asp	Arg
Pro	Phe 210	Lys	Pro	Tyr	Asn	Phe 215	Leu	Ala	His	Gly	Val 220	Leu	Pro	Asp	Ser
Gly 225	His	Leu	His		Leu 230	Leu	Lys	Val	Arg	Ser 235	Gln	Phe	Arg	Gln	Ile 240
Phe	Leu	Glu	Met	Gly 245	Phe	Thr	Glu		Pro 250	Thr	Asp	Asn	Phe	11e 255	Glu
			260			Asp		265					270		
Ala	Arg	Asp 275	Gln	His	Asp	Thr	Phe 280	Phe	Leu	Arg	Asp	Pro 285	Ala	Glu	Ala
Leu	Gln 290	Leu	Pro	Met	Asp	<b>Tyr</b> 295	Val	Gln	Arg	Val	Lys 300	Arg	Thr	His	Ser
305					310	Gln	•			315					320
Glu	Ala	Arg	Lys	Asn 325	Leu	Leu	Arg	Thr	His 330	Thr	Thr	Ser	Ala	Ser 335	Ala

Arg	Ala	Leu	Туг 340	Arg	Leu	Ala	Gln	Lys 345	Lys	Pro	Phe	Thr	Pro 350	Val	Lys
Tyr	Phe	Ser 355	Ile	Asp	Arg	Val	Phe 360	Arg	Asn	Glu	Thr	Leu 365	Asp	Ala	Thr
His	Leu 370	Ala	Glu	Phe	His	Gln 375	Ile	Glu	Gly	Val	Val 380	Ala	Asp	His	Gly
Leu 385	Thr	Leu	Gly	His	Leu 390	Met	Gly	Val	Leu	Arg 395	Glu	Phe	Phe	Thr	Lys 400
Leu	Gly	Ile	Thr	Gln 405	Leú	Arg	Phe	Lys	Pro 410	Ala	Tyr	Asn	Pro	Tyr 415	Thr
Glu	Pro	Ser	Met 420	Glu	Val	Phe	Ser	туг 425	His	Gln	Gly	Leu	Lys 430	Lys	Trp
Val	Glu	Val 435	Gly	Asn	Ser	Gly	Val 440	Phe	Arg	Pro	Glu	Met 445	Leu	Leu	Pro
Met	Gly 450	Leu	Pro	Glu	Asn	Val 455	Ser	Val	Ile	Ala	Trp 460	Gly	Leu	Ser	Leu
Glu 465	Arg	Pro	Thr	Met	Ile 470	Lys	Tyr	Gly	Ile	Asn 475	Asn	Ile	Arg	Glu	Leu 480
Val	Gly	His	Lys	Val 485	Asn	Leu	Gln	Met	Val 490	Tyr	Asp	Ser	Pro	Leu 495	Cys
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Val Ala Asp Asn Gly Asp Asp His Ser Glu Gly Gly Leu Val Glu Asn

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Pro	Cys 130	Gln	Gln.	.Glu	Leu	Asp 135	Gln	Val	Leu	Glu	Arg 140	Ile	Ser	Thr	Met
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225	_	Met	Gln			-			₹, <del></del>		****	•			
		31x		*.	• .*	··· ~ .2		<u> </u>		E. F			٠.,		<i>.</i>
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		omo ·s	apie	ens		1 * * 2	* - *		٠		1	-		-	
	)> 10 Arg	Val	Meţ	Ala 5	Met	Ala	Thr	Lys	Gly 10	Gly	Thr	Val	Lys	Ala 15	Ala
Ser	Gly	Phe	Asn 20	Ala	Met	Glu	Asp	Ala 25	Gln	Thr	Leu	Arg	Lys 30	Ala	Met
Lys	Gly	Leu 35	Gly.	Thr	Asp	Glu-	Asp 40	Ala	Ile	Ile	Ser	Val 45	Leu	Ala	Tyr

Arg	Asn 50		Ala	Gln	Arg	Gln 55	Glu	Ile	Arg	Thr	Ala 60		Lys	Ser	Thr
Ile 65	Gly	Arg	Asp	Leu	<b>I</b> le 70	Asp	Asp	Leu	Lys	Ser 75		Leu	Ser	Gly	Asn 80
Phe	Glu	Gln	Val	Ile 85	Val	Gly	Met	Met	Thr 90		Thr	Val	Leu	Туг 95	-
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Cys	Leu	11e 115	Glu	Ile	Leu	Ala	Ser 120	Arg	Thr	Pro	Glu	Glu 125	Ile	Arg	Arg
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11e 145	Arg	Ser	Asp	Thr	Ser 150		Met	Phe	Gln	Arg 155	Val	Leu	Val	Ser	Leu 160
Ser	Ala	Gly	Gly	Arg 165	Asp	Glu	Gly	Asn	Tyr 170	Leu	Asp	Asp	Ala	Leu 175	Val
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His	Leu 210	Leu	His	Val	Phe	Asp 215	Glu	Tyr	Lys	Arg	Ile 220	Ser	Gln	Lys	Asp
Ile 225	Glu	Gln	Ser	Ile	Lys 230	Ser	Glu	Thr	Ser	Gly 235	Ser	Phe	Glu	Asp	Ala 240
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Gly Gly Asp Asp

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<221># SITE ( ) 4 ( ) 1 ( ) 1 ( ) 1 ( ) 2 ( ) 4 ( ) 4 ( ) 4 ( ) 4 ( ) 4 ( ) 4 ( ) 5 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 ( ) 6 
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                                                                                                                                                       40
Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr Val
                           50 55
Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu Glu
Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala Asn
                                                                                                                                                                                                         90
Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr Ala
                                                        100
Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp Leu
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120

P	irg	Arg 130	Leu	Cys	Lys	Thr	Val 135	Gly	Ala	Thr	Ala	Leu 140	Pro	Arg	Leu	Th
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G	lu	Val	Gly	Asp	Thr 165	Gln	Val	Val	Val	Phe 170	Lys	His	Glu	Lys	Glu 175	Asp
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L	eu	Thr 210	Arg	Asp	Lys	Arg	Leu 215	Val	Pro	Gly	Gly	Gly- 220	Ala	Thr	Glu	Ile
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G	lu	Gln	Tyr	Ala	11e 245	Lys	Lys	Phe	Ala	Glu 250	Ala	Phe	Glu	Ala	Ile 255	Pro
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		290	Ala				295			•		300			:	•
3	05		Thr			310					315					320
			Val		325					330			•	÷	335	
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Thr	Gly	Ser	Ser	Arg	Glu	Asn	Cys	Thr	Val	Thr	Thr	Val	Phe	Phe	Thr
			20			٠		25					30		
			-	4.0	:	- 12	•	:		٠.			÷	=	*
Leu	Phe	Gln	Gly	Ser	Leu	Ser	Pro	Asp	Ile	Glu	Glu	Ile	Ser	Phe	Arg
		35					40				Í	45			
		4	<u></u> .	٠.	:			<u>:</u> .	"- ∵	2.00	• 4			Tip	7.1
Pro	Glu	Thr	Gln	Arg	Pro	His	Ser	Pro	Val	Ile	Lys	Pro	Arq	Phe	His
	50			•		55					60		•		
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Ser	Glv	Pro	Arg	Ser	Glý	Ala	Trp	Pro	Leu	Leu	Phe	Glv	Ser	His	Tro
65	•	-			70					75					80
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				Pro											
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vai	Gin	GFÅ	Pne	Glu	ser	Ala	Thr	Phe		GTÀ	Tyr	Phe	Lys		_
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Leu	Lys	Tyr ·		Lys	Gly	Gly	Val		Ser	Gly	Phe	Lys		Val	Val
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Pro	Asn	Glu	Val	Val	Val	Gln	Arg	Leu	Phe	Gln	Val	Lys	Gly	Arg	Arg
•		35					40					45			
							-					-	i .		
Val	Val	Arg	Ala	Thr	Glu	Val	Pro	Val	Ser	Trp	Glu	Ser	Phe	Asn	Asn
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Lys	Gly	Ile	Arg		Asn	Glu	Arg	Ser 105		Arg	ı Ala	Arg	y Val		Val
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											Gln 380				Pro
Ala 385	His	Leu	Met	ser	Leu 390	Phe	Gly	Gly	Lys	Pro 395	Met	Ile 	Ile	Tyr	Lys 400
											Pro				
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Val :.	Leu	Pro 435	Lys	Ala	Gly	Ala	Leu 440	Asn	Ser	Asn Pro	Asp 	Ala 445	Phe	Val	Leu
											Thr 460				
465			•		470	; \$	i.e.			475	Val	:	*	. :	480
	Val				Glu	Gly	Ser	Glu	Pro 490	Asp	Gly	Phe	Trp	Glu 495	Ala
			500				,	505			Arg		510		•
	:	515					520				Cys	525			
-	530					535					Leu 540				
545				: .	550	:	:			555	Trp				560
		•		565	÷				570 ∵		Lys	٠.		575	
			580					585	:.	÷	Ala	•	590		
Arg	Thr 	Pro 595	ſle	Thr	val 	Val	Lys 600	Gln	GΤÀ	Phe	Glu	Pro 605	Pro	ser	Phe

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Phe Ser Glu His Leu Lys Thr His Ala Ser Met Ile Ile Phe Glu Pro 50 55 60

Ala Asn Ala Phe Gly Glu Cys Ser Gly Tyr Ile Glu Arg Ala Ser Thr 65 70 75 80

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Tyr		Pro			Pro										Leu
	Asp		Pro	Lys	Thṛ	Leu	Ala 120	Arg	Leu	Asn	Asp	Met 125	Lys	Glu	Lys
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Ser	Gly 130	Pro	Gln	Ile	Lys	Glu 135	Leu	Thr	Asp	Glu	Glu 140		Glu	Arg	Leu
Gln 145	Leu	Glu	Ile	Asp	Gln 150	Lys	Lys	Asp	Ala	Glu 155	Asn	His	Glu	Ala	Gln 160
Leu	Lys	Asn	Gly	Ser 165	Leu	Asp	Ser	Pro	Gly 170	Lys	Gln	Asp	Thr	Glu 175	Glu
Asp	Glu	Glu	Glu 180	Asp	Glu :	Lys	Asp	Lys 185	Gly _.	Lys	Leu	Lys	Pro 190	Asn	Leu
Gly	Asn	Gly 195	Ala	Asp	Leu	Pro.	Asn 200	Tyr	Arg	Trp	Thr	Gln 205	Thr	Leu	Ser
Glu	Leu 210	Asp	Leu	Ala	Val	Pro 215	Phe	Cys	Val	Asn	Phe 220	Arg	Leu	Lys	Gly
Lys 225	Asp	Met	Val	Val	Asp 230	Ile	Gln	Arg	Arg	His 235	Leu	Arg	Val	Gly	Leu 240
Lys	Gly	Gln	Pro	Ala 245	Ile	Ile	Asp	Gly	Glu 250	Leu	Tyr	Asn	Glu	Val 255	Lys
Val	Glu	Glu	Ser 260	Ser	Trp	Leu	Ile	Glu 265	Asp	Gly	Lys	Val	Val 270	Thr	Val
His	Leu	Glu 275	Lys	Ile	Asn	Lys	Met 280	Glu	Trp	Trp	Ser	Arg 285	Leu	Val	Ser
Ser	Asp 290	Pro	Glu	Ile	Asn	Thr 295	Lys	Lys	Ile	Asn	Pro 300	Glu	Asn	Ser	Lys
Leu 305	Ser.	Asp	Leu	Asp	Ser 310	Glu	Thr	Arg	Ser	Met 315	Val	Glu	Lys	Met	Met 320

Tyr	Asp	Gln	Arg	Gln	Lys	Ser	Met	Gly	Leu	Pro	Thr	Ser	Asp	Glu	Gln	
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Lys	Lys	Gln	Glu	Ile	Leu	Lys	Lys	Phe	Met	Asp	Gln	His	Pro	Glu	Met	
			340					345					350			
Asp	Phe	Ser	Lys	Ala	Lys	Phe	Asn									
		355					360									
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-40		0.00						1								
	0> .10		C	<b></b>	3.00	C1-	C1	T	T10	Dro	17.3	T 011	200	C1-	C1	
	Trp			-	_											
<b>A</b> .			· ·	·, <b>ɔ</b> .	3.2	Tilly			> 1·0.		: .		1	. 13		
A 1 a	Ala	Aen	Glv	Ser	Sor	Thr	T.Au	Glv	Glv	Glv	λla	Glw	Thr	Mat	Glv	
NIG	ATG	vah	20	361	361	1111	Leu	25		GLY	VIG	GIŞ	30	MEC	Gly	
			20					2.5								
LAN	Ser	λla	. Ara	Tree .	Glar	Pro	Glin	Dhe	ጥኮም	Lon	Gla	Hie	Val	Pro	Asn	
LCu.	JC4	35	nr y	- y	O.L.y	11.0	40		****	. Dun.		45				
							•••									
Tvr	Arg	Gln	Xaa	Val	Tvr	Ile	Pro	Glv	Ser	Asn	Ala	Thr	Leu	Thr	Asn	
	50					55		2			60					
					•							•				
Ala	Ala	Gly	Lys	Arq	Gly	Trp	Gln	Gly	Pro	Ser	Arq	Trp	Gln	Trp	Gln	
65		_		•	70	_		:		75		_		•	80	
Gln	Glu	Glu	Val	Gly	Gln	.Glu	Gly	Glu	Glu	Vaļ	Thr	Trp	Arg	Pro	Gly	
				85					90			,		95		
•																
Gln	Glu	Pro	Gln	Gly	Gly	Leu	Ser	Pro	Thr	Ser	Pro	Ala	Ser	Pro	Tyr	
	. •		100					105					110			
												•				
Leu	His	Pro	Gly	Leu	Arg	Val	Ser	Gly	Leu	Thr	Pro	Arg	Ile	Leu	Val	
		115					120					125				
					-	-										
Gly	Ala	Lys	Ala	Met	Leu	Pro	Leu	Gly	Asn	Arg	Asn	Lys	Cys	Pro	Val	
	130					135				~	140					
Ser	Thr	Tvr	Pro	Phe	Pro	Pro	Ara	G1v	LOU	Aen	Ma+	Gln	T.VQ	Gl n	Phe	
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200

205

Glu	Lys 210	Pro		Asp	Pro	Asp 215	Asp	Pro	Leu	Ala	Asp 220	Gln	Asn	Ile	Lys
Asp 225	Arg	Tyr			230	Asn	Asp	Pro	Val	Ala 235	Asp	Lys	Leu	Leu	Lys 240
		Ser	Thr	245	Pro	Arg			250				Lys	Thr 255	Ile
		Leu											Glu 270	Thr	Asp
	Arg	Asn 275	His	Phe	Tyr	Gln	Phe 280	Gly	Glu	Ile	Arg	Th: 285	Ile	Thr	Val
	Gln 290	Arg	Gln	Gln	Cys	Ala 295	Phe	Ile	Gln	Phe	Ala 300	Thr	Arg	Gln	Ala
Ala 305	Glu	Val	Ala	Ala	Glu 310	Lys	Ser	Phe	Asn	Lys 315	Leu	Ile	Val	: Asn	Gly 320
Arg	Arg	Leu	Asn	Val 325	Lys	Trp	Gly	Arg	Ser 330	Gln	Ala	Ala	Arg	Gly 335	Lys
		Glu			Gly	Thr	Thr	Asp 345	Ser	Gly	Ile	Lys	Leu 350	Glu	Pro
	Pro	Gly 355	Leu	Pro	Gly	Ala	Leu 360	Pro	Pro	Pro	Pro	Ala 365	Ala	Glu	Glu
Glu	Ala 370	Ser	Ala	Asn	TYĻ	Phe 375	Asn	Ļeu į	Pro	Pro_	Şer 380	Gly	Pro	Pro	Ala
Val 385	Val	Asn	Ile	Ala	Leụ 390	Рŗо	Pro	Pro	Ь́іо	Gly 395	Ile	Alạ	Pro	Pro	Pro 400
Pro	Pro	Gly	Phe	Gly 405	Pro	His	Met	Phe	His 410	Pro	Met	Gly	Pro	Pro 415	Pro
Pro	Phe	Met	Arg 420	Ala	Б̀ьо́	Gly	Pro	Ile 425	His	Tyr	Pro		Glņ 430	Asp	Pro
Gln	Arg	Met 435	GĴĄ	Aļa	His	Ala	Gly 440	Lys	His	Ser	Ser	Pro 445			
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Gln Ser Pro Glu Phe Gln Ser Leu Phe Thr Glu Gly Leu Lys Ser Leu
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Thr Glu Leu Phe Val Lys Glu Asn His Glu Leu Arg Ile Ala Gly Gly
         35
                                                  45
Ala Val Arg Asp Leu Leu Asn Gly Val Lys Pro Gln Asp Ile Asp Phe
Ala Thr Thr Ala Thr Pro Thr Gln Met Lys Glu Met Phe Gln Ser Ala
Gly Ile Arg Met Ile Asn Asn Arg Gly Glu Lys His Gly Thr Ile Thr
                                     90
Ala Arg Leu His Glu Glu Asn Phe Glu Ile Thr Thr Leu Arg Ile Asp
                                105
Val Thr Thr Asp Gly Arg His Ala Glu Val Glu Phe Thr Thr Asp Trp
        115
Gln Lys Asp Ala Glu Arg Arg Asp Leu Thr Ile Asn Ser Met Phe Leu
Gly Phe Asp Gly Thr Leu Phe Asp Tyr Phe Asn Gly Tyr Glu Asp Leu
145
                    150
                                        155
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Lys	Asn	Lys	Lys	Val 165	Arg	Phe	Val	Gly	His 170		Lys	Gln	Arg	11e 175	Gln
Glu	Asp	Tyr	Leu 180	Arg	Ile	Leu	Arg	Tyr 185	Phe	Arg	Phe	Tyr	Gly 190	Arg	Ile
Val	_	Lys 195	Pro	Gly	Asp	His	Asp 200	Pro	Glu	Thr	Leu	Glu 205	Ala	Ile	Ala
	Asn 210	Ala	Lys	Gly	Leu	Ala 215	Gly	Ile	Ser	Gly	Glu 220	-	Ile	Trp	Val
			Lys				-								
Leu	Ile	Tyr	Asp	Leu 245											
Ala	Ser	Leu	Glu 260	Glu		_	_			_			_	-	7
Ser	Pro	Lys 275	Pro	Val										Xaa	Asp
Asp	Val 290		Lys				Arg				Ala 300		Glu		Lys
Asn 305	Leu	Gly	Leu	Phe			-		-		Asp				Ala 320
Thr	Asp	Ser	Ser											Ile 335	
Ser	Arg 	Glu	Pro 340				Ser		Met			٠.	: A		
	)> 10						٠			f.:	·		,		
<212		<b>T</b>	 sapie				-	•	•			•			
-	)> .> SI !> (7		• •	•			٠.	÷		·-·	٠.٠				
			juals	any	of	the	natu	rall	y · oc	curr	ing	L-am	ino	acid	s, .
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Glu 1	Asp	Ser	Leu	Asn 5	Leu	Asp	Leu	Thr	Pro 10		Met	Leu	Arg	Arg 15	
Leu	Glu	Arg	Pro 20		Thr	Leu	Ala	Leu 25		val	Gly	Ser	Gln 30		Ala
Val	Met	Met 35		Leu	Ser	Leu	Gly .40		Phe	Arg		Leu . 45		Ala	Leu
Phe	Gly 50	Arg	Asp	Gln	Gly	Pro	Thr	Phe	Asp	Tyr	Ser 60		Pro	Arg	Asp
Val 65	туг	Ser	Asn	Leu	Ser 70	His	Leu		Gly	Ala .75	Pro	Xaa	Gly	Pro	Pro 80
Xaa	Pro	Gln	Gly	Leu 85	Pro	Tyr	Cys	Pro	Glu 90		Ser	Pro	Leu	Leu . 95	Val
Gly	Pro	Val	Ser 100		Ser	Phe	Ser	Pro 105	Val	Pro	Ser	Leu	Ala 110	Glu	Ile
Val	Glu	Arg 115	Asn	Pro	Arg	Val	Glu 120	Pro	Gly	Gly	Arg	Tyr 125	Arg	Pro	Ala
Gly	Cys 130	Glu	Pro	Arg	Ser	Arg 135	Thr	Ala	Ile	Ile	Val 140	Pro	His	Arg	Ala
Arg 145		His	His	Leu	Arg 150	Leu	Leu	Leu	туг	His 155	Leu	His	Pro	Phe	Leu 160
Gln	Arg	Gln	Gln	Leu 165	Ala	туг	Gly	Ile	Туг 170	Val	Ile	His	Gln	Ala 175	Gly
Asn	Gly	Thr	Phe 180	Asn	Arg	Ala	Lys	Leu 185	Leu	Asn	Val	Gly	Val 190	Arg	Glu
Ala	Leu	Arg 195	Asp	Glu	Glu	Trp	Asp 200	Cys	Leu	Phe	Leu	His 205	Asp	Val	Asp
Leu	Leu 210	Pro	Glu	Asn	Asp	His 215	Asn	Leu	туг	Val	Cys 220	Asp	Pro	Arg	Gly
Pro 225	Arg	His	Val	Ala	Val 230	Ąla	Met	Asn	Lys	Phe 235	Gly	Tyr	Ser	Leu	Pro 240
Tyr	Pro	Gln	Tyr	Phe	Gly	Gly	Val	Ser	Ala	Leu	Thr	Pro	Asp	Gln	туr

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Leu Lys Met Asn Gly Phe Pro Asn Glu Tyr Trp Gly Trp Gly Glu
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Asp Asp Asp Ile Ala Thr Arg Val Arg Leu Ala Gly Met Lys Ile Ser
      275
                      280
Arg Pro Pro Thr Ser Val Gly His Tyr Lys Met Val Lys His Arg Gly
             295
Asp Lys Gly Asn Glu Glu Asn Pro His Arg Phe Asp Leu Leu Val Arg
305 310
                                315 320
Thr Gln Asn Ser Trp Thr Gln Asp Gly Met Asn Ser Leu Thr Tyr Gln
            325 330 335
Leu Leu Ala Arg Glu Leu Gly Pro Leu Tyr Thr Asn Ile Thr Ala Asp
  340 133 345
Ile Gly Thr Asp Pro Arg Gly Pro Arg Ala Pro Ser Gly Pro Arg Tyr
      355
                      360
                              365
Pro Pro Gly Ser Ser Gln Ala Phe Arg Gln Glu Met Leu Gln Arg Arg
       375
Pro Pro Ala Arg Pro Gly Pro Leu Ser Thr Ala Asn His Thr Ala Leu
385 390
                                395
Arg Gly Ser His
  ក្រុម ខណ្ឌ សមានស្ថិក មានស្រុះស្រុកស្រុកស្រុក
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35 40 45 Glu Lys Arg Asn Pro Ile Arg Lys Phe Val Arg Thr Pro Glu Ser Val 50 55 His Ala Ser Xaa Ser Ser Ser Asp Ser Ser Phe Glu Pro Ile Pro Leu 70 Thr Ile Lys Ala Ile Phe Glu Arg Phe Lys Asn Arg Lys Lys Arg Tyr 85 90 Lys Lys Lys Lys Arg Arg Tyr Gln Pro Thr Gly Arg Pro Arg Gly 105 Arg Pro Glu Gly Arg Arg Asn Pro Ile Tyr Ser Leu Ile Asp Lys Lys 120 Lys Gln Phe Arg Ser Arg Gly Ser Gly Phe Pro Phe Leu Glu Ser Glu Asn Glu Lys Asn Ala Pro Trp Arg Lys Ile Leu Thr Phe Glu Gln Ala 155 Val Ala Arg Gly Phe Phe Asn Tyr Ile Glu Lys Leu Lys Tyr Glu His 165 170 His Leu Lys Glu Ser Leu Lys Gln Met Asn Val Gly Glu Asp Leu Glu 180 185 Asn Glu Asp Phe Asp Ser Arg Arg Tyr Lys Phe Leu Asp Asp Asp Gly 200 Ser Ile Ser Pro Ile Glu Glu Ser Thr 210 <210> 1074 <211> 161 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (110) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122)

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Asn Ser Arg Val Asp Pro Arg Val As	
20	25 30
Ser Ala Pro Gly Gln Leu Asn Ser Cy	ys Gln Asp Val Leu Pro Ala Glu
35 40	45
and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	
Pro Ala Ala Val Pro Thr Pro Thr G	
50 55	60
Pro Lys Glu Pro Ser Thr Val Ser A	-
65 70	75 80
Pro Lys Leu Trp Gly Leu Trp Pro Se	
85	90 95
Asn His His Arg Arg His His Arg Cy	
100	110
Cys Asp Arg Ala Val Val Ser Lys A	
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Phe Trp Gly Leu Leu Leu Ile Gln I	
130 135	140
Phe Gly Xaa Asn Lys Asn Ser Gln G	·
145 150	155 160

Lys

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1				5					10					15	
		•													
Met	Val	Phe			Leu	Phe	Ile			Asn	Asn	Glu	Asp	Ala	Va.
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		35					40					45			,
Glu	Va 1	Ara	Glu	Ma+	Δ1 a	λla	Th-	Th =	T 011	505	C1	T	Leu	<b>~1</b> ~	<b>a</b>
	50		Ozu	1100	nia.	55	1111	1111	reu	261	60		Leu	GIII	Cy:
	30										00				
Asn	Phe	Leu	Thr	Met	Asp	Ser	Pro	Met	Gln	Ile	His	Phe	Glu	Gln	T.e.
65					70					75	0			01	80
															•
Cys	Lys	Thr	Lys	Leu	Pro	Lys	Lys	Arg	Lys	Arg	Asp	Pro	Gly	Ser	Val
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Gly	Asp	Thr	Ile	Pro	Ser	Ala	Glu	Leu	Val	Lys	Arg	His	Ala	Gly	Va]
			100					105					110		
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Trp		Pro	GIN	Leu	Leu		Asn	Leu	Ser	Ala		Leu	Asn	Asp	Pro
	130					135					140				
Gl n	Pro	Tle	Glu	Mo+	Th r	17 a 3	Tvc	Tvc	Th-	T 011	50-	ħ c n	Phe	N	2
145	210	110	010	Mec	150	Val	цуэ	гуу	1111	155	Ser	ASII	Pne	Arg	160
				_						1,5					
Leu	Thr	Met	Thr	Thr	Glv	Ara	Asn	Tle	Asn	Ser	Asn	Ser	Leu	Met	Thr
				165		5			170					175	
Asn	Cys	Leu	Phe	Ser	Pro	Ile	Phe	Leu	Cys	His	His	Ala	Ile	Met	His
	-		180					185	•				190	_	_
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Arg	Lys	Met	Thr	Ser	Pro	His	Phe	Arg	Leu	Phe	Ser	Ser	Lys	Ile	Pro
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Gly Thr Gly Ala Ala Tyr Pro Ser Pro Thr Arg Gly Ala Ser Ala Val
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Val Leu Arg Cys Glu Gly Glu Xaa Trp Leu Phe Asp Cys Gly Glu Gly

Thr Gln Thr Gln Leu Met Lys Ser Gln Leu Lys Ala Gly Arg Ile Thr

Lys Ile Phe Ile Thr His Leu His Gly Asp His Phe Phe Gly Leu Pro

Gly Leu Leu Cys Thr Ile Ser Leu Gln Ser Gly Ser Met Val Ser Lys

- 75

90

105 / 110

. . 55

70

His Pro Gln Val Pro Ser Val Val Ala Leu Cys Lys Phe

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Gln Pro Ile Glu Ile Tyr Gly Pro Val Gly Phe Gly Thr Leu Ser Gly
115 120 125
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Glu Pro Trp Asn Ser Leu Xaa Arg Glu Leu Val Phe His Tyr Val Val 130 135 140

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Arg Ile Xaa Ala Cys Xaa 165

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Glu Asp Tyr Asn Phe Val Phe Lys Val Val Leu Ile Gly Glu Ser Gly 35 40 45

Val Gly Lys Thr Asn Leu Leu Ser Arg Phe Thr Arg Asn Glu Phe Ser 50 55 60

His Asp Ser Arg Thr Thr Ile Gly Val Glu Phe Ser Thr Arg Thr Val 65 70 75 80

Met Leu Gly Thr Ala Ala Val Lys Ala Gln Ile Trp Asp Thr Ala Gly 85 90 95

Leu Glu Arg Tyr Arg Ala Ile Thr Ser Ala Tyr Tyr Arg Gly Ala Val 100 105 110

Gly Ala Leu Leu Val Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val 115 120 125

Val Glu Arg Trp Leu Lys Glu Leu Tyr Asp His Ala Glu Ala Thr Ile

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Val	Pro	Thr		Glu 165	Ala	Arg	Met	Phe	Ala 170	Glu	Asn	Asn	Gly	Leu 175	Leu
Phe	Leu	Glu	Thr. 180	Ser	Ala	Ľeu	Asp	Ser 185	Thr	Asn	Va 1	Glu	Leu 190	Ala	Phe
Glu	Thr	Val 195	Leu		Glu	Ile	Phe 200	Ala	Lys	Val	Ser.	Lýs. 205	Gln	Arg	Gln
Asn	Ser 210	Ile	Arg	Thr	Asn	Ala 215	Ile		Ser	Gly	Ser. 220	Ala	Gln.	Ala	Gly
Gln 225	Glu	Pro	Gly	Pro	_	Glu	_	Arg	Ala	Cys 235	Cys	Ile	Ser	Leu.	Α,
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His Val Asp Pro Leu Phe Ala Leu Gly Ala Gly Leu Val Ile Gly Ala 100 105 Val Tyr Leu Tyr Ser Leu Pro Arg Gly Ala Xaa Lys Ala Ile Ala Ser Ala Ser Ala Ser Gly Pro Cys Val His Gln Gln Pro Pro Gly 130 135 . Gln Pro Pro Pro Pro Gln Leu Ser Ser His Arg Gly Asp Leu Ile Thr . 150 155 Glu Pro Phe Leu Pro Lys Ser Val Leu Val Lys 165 <210> 1079 <211> 141 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1079 Arg Arg Val Cys His Ser Ser Pro His Leu Ser Ser Pro Arg Ala Ala Cys Glu Gln Gln Ala Val Ala Leu Thr Leu Gln Glu Asp Arg Ala Ser 25 Leu Thr Leu Ser Gly Gly Pro Ser Ala Leu Ala Phe Asp Leu Ser Lys Val Pro Gly Pro Glu Ala Ala Pro Arg Leu Xaa Ala Leu Thr Leu Gly Leu Ala Lys Arg Val Trp Ser Leu Glu Arg Arg Leu Ala Ala Glu 70 Glu Thr Ala Val Ser Pro Arg Lys Ser Pro Arg Pro Ala Gly Pro Gln 85 90 95

Leu Phe Leu Pro Asp Pro Asp Pro Gln Arg Gly Gly Pro Gly Pro Gly 100 105 110

Val Arg Arg Cys Pro Gly Glu Ser Leu Ile Asn Pro Gly Phe Lys

Ser Lys Lys Pro Ala Gly Gly Val Asp Phe Asp Glu Thr

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		_		Val	Trp	Leu	Glu	His	Ala	Ile	Ala	Met	Ile	Cys	Gly
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Asn	Val	Cys	Leu	Trp	Lys	Gly	Ala	Pro	Thr	Thr	Ser	Leu	Ile	Ser	Val
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Ala	Val	Thr	Lys	Ile	Ile	Ala	Lys	Val	Leu	Glu	Asp	Asn	Lys	Leu	Pro
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Gly	Ala	Ile	Cys	Ser	Leu	Thr	Cys	Gly	Gly	Ala	Asp	Ile	Gly	Thr	Ala
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Met	Ala	Lys	Asp	Glu 85	_	Val			Leu 90		Phe	Thr	Gly	Ser 95	Thr
C1 =	t/a 1	C1	T	<i>-</i> 1-	1103	C1	T	Mat	***	<b>~1</b> ~	G1	B	Phe	G1	B
GIII.	var	GIY	100	GIII	val	GIŞ	reu		Val				110		
								103					110		
Ser	Leu	Leu	Glu	Leu	Gly	Gly							Phe	Glu	Asp
		115		•			120					125		'	
בומ	n ċ n	T an	507	T OU	17-1	17.3	Dro	505	<b>71</b> 2	T 011	Dho	م 1 م	Ala		C1
nia	130	Deu	ber	пеа	Val	135	110	361	ATG		140	ALG	Ala	Val	GLY
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Thr	Ala	Gly	Gln	Arg	Cys	Thr	Thr	Ala	Arg	Arg	Leu	Phe	Ile	His	Glu
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Ser	Ile	His	Asp		Val	Val	Asn	Arg		Lys	Lys	Ala	Tyr		Gln
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T1 -	<b>&gt;</b>	••. •			D===	<b></b>		<b>5</b>	•		<b>.</b> .	<b></b>	<b>~</b> 1 = 1	<b>.</b>	•
тте	Arg	Val	Gly	Asn	PIO	Trp	Asp	Pro	Asn	val	Leu	Tyr	Gly	Pro	Leu
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His	Thr	Lys 195	Gln	Ala	Val	Ser	Met 200		Leu	Gly	Ala	Val 205		Glu	Ala
Lys	Lys 210		Gly	Gly	Thr	Val 215		туг	Gly	Gly	Lys 220		. Met	Asp	Arg
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Ala	Gln	Gly 355	Ile	Lys	Phe	Gln	-							-	
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Ala	Leu	Thr	Met 20	Thr	Gln	Gln	Gly	Ala 25	Ala	Leu	Gln	Asn	Tyr 30	Asn	Asn
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Cys Arg Gln Ile Gln Glu Glu Glu Asp Glu Lys Gln Arg Leu Gln Asn 55 Glu Val Arg Gln Leu Thr Glu Lys Leu Ala Arg Val Asn Glu Asn Leu 7**5** 70 Ala Arg Lys Ile Ala Ser Arg Asn Glu Phe Asp Arg Thr Ile Ala Glu 85 90 Thr Glu Ala Ala Tyr Leu Lys Ile Leu Glu Ser Ser Gln Thr Leu Leu 100 105 Ser Val Leu Lys Arg Glu Ala Gly Asn Leu Thr Lys Ala Thr Ala Pro 115 Asp Gln Lys Ser Ser Gly Gly Arg Asp Ser 130 135 <210> 1082 <211> 339 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (42) <223> Xaa equals any of the naturally occurring L-amino acids

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Ala Leu Glu Asp Cys Ala Gln Glu Gln Met Arg Leu Arg Ala Gln Val

Arg Leu Leu Glu Thr Arg Val Lys Gln Gln Gln Val Lys Ile Lys Gln 65 70 75 80

Leu Leu Gl $_{\dot{n}}$  Glu Asn Glu Val Gln Phe Leu Asp Lys Gly Asp Glu Asn 85 90 95

Thr Val Val Asp Leu Gly Ser Lys Arg Gln Tyr Ala Asp Cys Ser Glu

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Thr	Gln	G1u 195	Asp	туг	Thr	Leu	Lys 200	Ile	Asp	Leu	Ala	Asp 205	Phe	Glu	Lys
Asn	Ser 210	Arg	Tyr	Ala	Gln	Туг 215	Lys	Asn	Phe	Lys	Val. 220	Gly	Asp	Glu	Lys
Asn 225	Phe	Tyr	Glu	Leu	Asn 230	Ile	Gly	Glu	Tyr	Ser 235	Gly	Thr	Ala	Gly	Asp 240
Ser	Leu	Ala	Gly	Asn 245	Phe	His	Pro	Glu	Val 250	Gln	Trp	Trp	Ala	Ser 255	His
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His	Ser 290	Ala	Asn	Leu	Asn	Gly 295	Val	Tyr	Tyr	Ser	Gly 300	Pro	Tyr	Thr	Ala
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Gly	Arg	Pro	Arg 20	Ala	Pro	Leu	Val	Asn 25	Ala	Leu	Leu	Thr	Ala 30		Glu
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Ser	Asn	Gln	Gln	Thr 85	Glu	Lys	Glu	Thr	Asn 90	Thr	Pro	Lys	Lys	Lys 95	Glu
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Lys	Arg	Ile 115	Gln	Lys	Glu	Leu	Ala 120	Asp	Ile	Thr	Leu	Asp 125	Pro	Pro	Pro
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Leu	Asp	Ile	Thr	Phe 165	Thr	Pro	Glu	Tyr	Pro. 170	Phe	Lys	Pro	Pro	Lys 175	Val
Thr	Phe	Arg	Thr 180	Arg	Ile	Tyr	His	Cys 185	Asn	Ile	Asn	Ser	Gln 190	Gly	Val
Ile	ĊĀR	Leu 195	Asp	Ile	Leu	Lys	Asp 200	Asn	Trp	Ser	Pro	Ala 205	Leu	Thr	Ile
Ser	Lys		Leu	Leu		Ile	_	Ser	Leu	Leu	Thr 220		Cys	Asn	Pro

Ala 225		Pro	Leu	Val	Gly 230		Ile	Ala	Thr	Gln 235		Met	Thr	Asn	Arg 240
Ala	Glu	His	Asp			Ala	Arg	Gln	Trp 250		Lys	Arg	Tyr	Ala 255	Thr
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Ala	Thr 50	Thr	Asp	Asn	Glu	Ile 55	Ser	Arg	Thr	Glu	Tyr 60	Leu	Cys	Glu	Asn
Ser 65	Leu	Glu	Gly :	Lys	Asn 70	Lys	Asp	Asn	Ser	Ser 75	Asn	Glu	Val	Phe	Pro
Gln	Gly	Ala	Glu	Glu 85	Arg	Met	Cys	Tyr	Gln 90	Cys	Glu	Ser •	Glu	Asp 95	Glu
Pro	Gln	Ala	Asp 100	Gly	Ser	Gly	Leu	Thr 105	Thr	Ala	Pro	Pro	Thr 110	Pro	Arg
Asp	Ser	Leu 115	Gln	Pro	Ser	Ile	Lys 120			Leu			Leu	Gln	Leu
Ser	Pro 130	Asp	Phe		Phe	Thr 135	Ala :		Leu	Ala	Ala 140	Glu 	Val	Ala	Ala
Arg 145	Ser	Leu		Phe	Thr 150	Thr	Met		Glu		Thr	Phe	Gly	Asp	Glu 160
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Glu	Ile	Ser	Phe 20		Cys	His	Glu	Thr 25				Ser		Ile	Cys
Gln	Gly	Asp 35	Gly	Thr	Trp		Pro	_						Asp	Ile
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Ser 65	Tyr	Ser	Phe		Lys 70		Glu		Ile	-		Cys	Asp		Gly 80
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Ser	Ala	Pro	Ala 100	Pro	Gln	Cys	Lys	Ala 105		Cys	Arg	Lys		Glu	Leu
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Cys	Glu	Trp	Glu	Thr 165	Pro	Glu	Gly	_	Glu 170	Gln	Val	Leu	Thr	Gly 175	
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Pro Gly Pro Pro Gly Gly Ala Gly Ser Tyr Ser Trp Gly Leu Gly Phe
Arg Arg Ala Gly Gly Ala Gly Leu Lys Ala Ala Leu Val Tyr Gly
Val Val Thr Gln Ser His Trp Gln Arg Trp Gly Leu Ala Val Ala Trp
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Val	Ile	Lys	Phe 100	Cys	Thr	Ser	Ala	Ala 105	Asp	Met	Lys	Ile	Arg 110	Leu	Phe
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Asn 225	Thr	Phe	Lys	Val	Gly 230	Ala	Val	Ala	Gly	Asn 235	Asp	Trp	Leu	Ile	Trp 240
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Ile

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Glv	Leu	Ser	Ser	Leu	Ser	Asp	Thr	Met	Tle	Met	Asn	Ser	Tle	Δla	λ1:
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		35					40					45			
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Gln	Asp	Val	Ala	Gln	Leu	Arg	Ser	Pro	Leu	Pro	Arg	Gly	Ile	Ile	Arc
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Ile	His	Leu	Leu	Ala	Ala	Arg	Gly	Leu	Ser	Ser	Lys	Asp	Lvs	Tvr	Val
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T.ve	GTv	Len	Tla	Glu	Gly	Luc	Ser	Aen	Pro	Tur	λla	T AU	17 - 1	7~~	T 011
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GLY	Thr	GIn		Phe	Cys	ser	Arg		Ile	Asp	Glu	Glu	Leu	Asn	Pro
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Gln	Trp	Gly	Glu	Thr	Tyr	Glu	Val	Met	Val	His	Glu	Val	Pro	Gly	Gln
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Glu	Trp	Leu	Thr	485		a Asp	Val	. Pro	90 Ser		/ Arg	, Leu	ı His	495	
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Arg 625	Trp	Phe	Thr	Leu	Ser 630	Ser	Gly	Gln	Gly	Gln 635	Val	Leu	Leu	Arg	Ala 640
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Lys	Lys 50		Arg	Glu	His	His		Lys	Leu	Arg	Lys 60		ı Ala	Lys	Lys
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Pro	Phe	Lys	Glu	Ala 85	Leu	Leu	Arg	Glu	Ala 90		Leu	Arg	Lys	Gln 95	_
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Glu	Lys	Lys 115	Arg	Lys	Leu	Glu	Thr 120	Asn	Pro	Asp	Ile	Lys 125		Ser	Asn
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Lys	Lys	Val	Ile	Glu 165	Ala	Ser	Asp	Val	Val 170	Leu	Glu	Val	Leu	Asp 175	Ala
Arg	Asp	Pro	Leu 180	Gly	Cys	Arg	Cys	Pro 185	Gln	Val	Glu	Glu	Ala 190	Ile	Val
Gln	Ser	Gly 195	Gln	Lys	Lys	Leu	Val 200	Leu	Ile	Leu	Asn	Lys 205	Ser	Asp	Leu
Val	Pro 210		Glu	Asn	Leu	Glu 215	Ser	Trp	Leu	Asn	Tyr 220	Leu	Lys	Lys	Glu
Leu [.] 225	Pro	Thr	Val	Val	Phe 230	Arg	Ala	Ser	Thr	Lys 235	Pro	Lys	Asp	Lys	Gly 240
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Met Arg Pro Tyr Leu Trp Trp Xaa Glu Val His His Ser Gly Ala Ala

Ala 65		: Val	. Cys	Ala	Asp 70		His	Pro	Asp	Gln 75		Arç	g Gly	His	Leu 80
Ala	Val	. His	Ile	Pro 85	Ser	Trp	Leu	Val	Val 90		Pro	Asp	Trp	95	
Asp	Phe	Pro	Asp 100		Ser	Leu	His	Lys 105		Leu	His	Ser	Asp		Gln
Gln	Glu	Arg		Leu	Pro	Lys	Glu 120	Arg	Pro	Pro	Glu	Gly 125		Pro	Glu
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1	гуз	ASII	ser	5	AIG	GIU.	GIU	met	10	AIG	ser	ser	ser	15	ser
Ser	Ala	Gly	Gly 20	Val	Ser	Gly	Ser	Ser 25	Val	Thr	Gly	Ser	Gly 30	Phe	Ser
Val	Ser	Asp 35	Leu	Ala	Pro	Pro	Arg 40	Lys	Ala	Leu	Phe	Thr 45	Tyr	Pro	Lys
Gly	Ala 50	Gly			Leu	Glu 55				Glu	Arg 60	Phe	Leu	Cys	Glu
Ser 65	Val	Phe		Tyr	Gln 70	Val		Ser		Leu 75	Lys	Gln	Val	Lys	His 80
Asp	Gln	Gln	Val	Ala 85	Arg	Met	Glu	Lys	Leu 90	Ala	Gly		Val	Glu 95	Glu
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Gln Ser Ser Val Asn Lys His Arg His Met Phe Val Lys Gln Val Asp 65 70 75 80

Met Asp His Val Met Lys Ala Lys Ser Ile Arg Glu Phe Asp Lys Arg 85 90 95

Phe Thr Ser Val Met Phe Gly Tyr Gln Thr Ile Asp Asp Tyr Tyr Thr 100 105 110

Asp Ala Ser Pro Ser Pro Arg Leu Lys Ser Val Gly Ile Pro Val Leu 115 120 125

Cys Leu Asn Ser Val Asp Asp Val Phe Ser Pro Ser His Ala Ile Pro 130 135 140

Ile Glu Thr Ala Lys Gln Asn Pro Asn Val Ala Leu Val Leu Thr Ser 150 155 160

Tyr Gly Gly His Ile Gly Phe Leu Glu Gly Ile Trp Pro Arg Gln Ser 165 170 175

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His Gly His Glu Leu Ser 195

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~1~	Dho	N ~	B	m L	a1 -	**- 3	710	c1	mb	T 013	C1-	170.1	T 011	C1	c

225					230					235	•				240
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Ser	Leu	Leu	Asn 420	Gln	Asp	Leu	His	Trp 425	Ser	Leu	Cys	Asn	Leu 430	Arg	Ala
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465			Gly		470					475				_	480
			Glu	485					490					495	-
Ser	Ser	Ser	Asn	Lys	Val	Gly	Lys	Leu	Ser	Glu	Asn	Ser	Ser	Glu	Ile

500 505 510 Lys Lys Gly Arg Ile Thr Pro Ser Gln Val Lys Met Ser Pro Ser Tyr 520 515 His Gln Ser Lys Gly Asp Pro Thr Ala Lys Lys Gly Thr Ser Glu Pro 535 540 Val Leu Asp Pro Gln Gln Ile Gln Ala Phe Asp Gln Leu Cys Arg Leu 550 555 Tyr Arg Gly Ser Ser Arg Leu Ala Leu Leu Thr Glu Leu Ser Gln Asn 565 570 Arg Ser Ser Glu Ser Tyr Arg Pro Phe Ser Gly Ser Gln Ser Ala Pro 585 . 590 Ala Phe Asn Ser Ile Phe Gln Asn Glu Asn Phe Gln Leu Gln Leu Ile 600 605 Pro Pro Pro Val Thr Glu Asp 610 615 <210> 1095 <211> 264 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1095 Trp Xaa Ser Thr Thr Ile Trp Lys Ala Gly Pro Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Arg Gly Phe Trp 25 Phe Cys Ser Ser Val Trp Val Ser Ser Arg Leu Leu Lys Met Asn Arg 40 35 Leu Phe Gly Lys Ala Lys Pro Lys Ala Pro Pro Pro Ser Leu Thr Asp

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Met	Arg	Glu	-Gly 100	. Pro	Ala	Lys	Asn	Met 105	Val	Lys	Gln	Lys	Ala 110	Leu	Arg
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Gln	Gln 130	Ser			Met									Ser	Leu
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	Ala 210	Glu	Leu	Asp	Ala	Leu 215	Gly	Asp	Glu	Leu	Leu 220	Ala	Asp	Glu	Asp
Ser 225		Tyr		Asp	Glu 230	Ala		Ser	Ala	Pro 235	Ala	Ile	Pro	Glu	Gly 240
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Ser 1	Cys	Cys ·	Phe	Leu 5	Lys	Arg	Leu	Gln	Ala 10	Ser	Phe	Pro	Arg	Thr 15	Ala

Val	Ser	Phe	Glu 20	Pro	Leu	Ala	Gly	Asp 25		Pro	Arg	Gly	Arg 30	Lys	Ser
Arg	Arg	Arg 35	Arg	Asn	Ala	Arg	Ala 40	Ala	Glu	Glu	Asn	Arg 45	Asn	Asn	Arg
Lys	Ile 50	Gln	Ala	Ser	Glu	Ala 55	Ser	Glu	Thr	Pro	Met 60	Ala	Ala	Ser	Val
Val 65	Ala	Ser	Thr	Pro	Glu 70	Asp	Asp	Leu	Ser	Gly 75	Pro	Glu	Glu	Asp	Pro 80
Ser	Thr	Pro	Glu	Glu 85	Ala	Ser	Thr	Thr	Pro 90	Glu	Glu	Ala	Ser	Ser 95	Thr
Ala	Gln	Ala	Gln 100	Lys	Pro	Ser	Val	Pro 105	Arg	Ser	Asn	Phe	Gln 110	Gly	Thr
Lys	Lys	Ser 115	Leu	Leu	Met	Ser	11e 120	Leu	Ala	Leu	Ile	Phe 125	Ile	Met	Gly
Asn		Ala	Lys	Glu	Ala	Leu 135	Val	Trp	Lys	Val	Leu 140	Gly	Lys	Leu	Gly
Met 145	Gln	Pro	Gly	Arg	Gln 150	His	Ser	Ile	Phe	Gly 155	Asp	Pro	Lys	Lys	11e 160
Val	Thr	Glu	Glu	Phe 165	Val	Arg	Arg	Gly	туг 170	Leu	Ile	Tyr	Lys	Pro 175	Val
Pro	Arg	Ser	Ser 180	Pro	Val	Glu	Tyr	Glu 185	Phe	Phe	Trp	Gly	Pro 190	Arg	Ala
His	Val	Glu 195	Ser	Ser	Lys	Leu	Lys 200	Val	Met	His	Phe	Val 205	Ala	Arg	Val
Arg	Asn 210	Arg	Cys	Ser	Lys	Asp 215	Trp	Pro	Cys	Asn	Туг 220	Asp	Trp	Asp	Ser
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<210> 1097

Tyr Ser Ala Pro

<211> 132

<212> PRT

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Asn Asn Ala Glu Lys Arg Gly Lys Arg Gln Val Leu Ile Arg Pro Cys
                              25
Ser Lys Val Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr
                     40
Ile Gly Glu Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val
Val Asn Leu Thr Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg
                   70 75
Phe Asp Val Gln Leu Lys Asp Leu Glu Lys Trp Gln Asn Asn Leu Leu
                85
                                  90
Pro Ser Arg Gln Phe Gly Phe Ile Val Leu Thr Thr Ser Ala Gly Ile
Met Asp His Glu Glu Ala Arg Arg Lys His Thr Gly Gly Lys Ile Leu
                          120
Gly Phe Phe Phe
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Ala Arg His Thr Pro Ala Gln Arg His Asp His Pro Gln Glu Gly Asn

10

<400> 1098

.1 _ 5

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Val	Pro	Gly 35	Pro	Glu	His	Cys	Gly 40	Pro	Gln	Arg	Xaa	Leu 45	Gln	Pro	Leu
Val	Туг 50	Pro	Leu	Ala	Gln	val 55	Ile	Ile	Gly	Cys	Ile 60	Lys	Leu	Ile	Pro
Thr 65	Ala	Arg	Phe	Tyr	Pro 70	Leu	Arg	Met	His	Cys 75	Ile	Arg	Ala	Leu	Thr 80
Leu	Leu	Ser	Gly	Ser 85	Ser	Gly,	Ala	Phe	Ile 90	Pro	Val	Leu	Pro	Phe 95	Ile
Leu	Glu	Met	Phe 100	Gln	Gln	Val	Asp	Phe 105	Asn	Arg	Lys	Pro	Gly 110	Arg	Met
Ser	Ser	Lys 115	Pro	Ile	Asn	Phe	Ser 120	Val	Ile	Leu	Lys	Leu 125	Ser	Asn	Val
Asn	Leu 130	Gln	Glu	Lys	Ala	Tyr 135	Arg	Asp	Gly	Leu	Val 140	Glu	Gln	Leu	Tyr
Asp 145	Leu	Thr	Leu	Glu	Tyr 150	Leu	His	Ser	Gln	Ala 155	His	Суз	Ile	Gly	Phe 160
Pro	Glu	Leu	Val	Leu 165	Pro	Val	Val	Leu	Gln 170	Leu	Lys	Ser	Phe	Leu 175	Arg
Glu	Cys	Lys	Val 180	Ala	Asn	Tyr	Суѕ	Arg 185	Xaa	Val	Gln	Gln	Leu 190		Gly
Lys	Val	Glņ 195	Glu	Asn	Ser	Ala	Tyr 200	Ile	Cys	Ser	Arg	Arg 205	Gln	Arg	Val
Ser	Phe 210	Gly	Val	Ser	Glu	Gln 215	Gln	Ala	Val	Glu	Ala 220		Glu	Lys	Leu
Thr 225	Arg	Glu	Glu	Gly	Thr 230	Pro	Leu	Thr	Leu	Tyr 235	Tyr	Ser	His	Trp	Arg 240
			Asp	245					250					255	
			Leu 260			•		265					270		
Arg	Lys	Asp 275	Glu	Asp	Arg	Lys	Gln 280	Phe	Lys	Asp	Leu	Phe 285	Asp	Leu	Asn

Ser Ser 290		Glu	Asp	Asp	Thr 295	Glu	Gly	Phe	Ser	Glu 300		Gly	Ile	Leu
Arg. Pro	Leu	Ser	Thr	Arg 310	His	Gly	Val	Glu	Asp 315	_	Glu	Glu	Asp	Glu 320
Glu Glu	Gly	Glu.	Glu 325	. As p	Ser	Ser	Asn	Ser 330		Gly	Glu	Trp	Ser 335	Trp
Asp Gly	Asp	Pro 340	Asp	Ala	Glu	Ala	Gly 345	Leu	Ala	Pro	Gly	Glu 350	Leu	Gln
Gln Leu	. Ala 355	Gln.	Gly	Pro:	Glu	Asp 360	Glu	Leu.	Glu.	Asp	Leu 365	Gln	Leu	Ser
Glu Asp 370	-			- **				•				· ·	· .	
<210> 1			•			•								
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~213× H	Omo s	sabre	ns.											
<400> 1	 					٠		·						
Glu Arg		t.eu	Glv	Gln	Pro	Glv	Dhe	Len	Gly	Cve	Pro	A	Gla	Dro
1														
													15	
1			* 5·					10:		•		٠ ,	15	•
			- 5 His		Pro	Thr	Ala	10: Leu	Leu	Phe		٠ ,	15 Leu	•
1	Ala	Met 20	5 His Ala	Tyr	Pro	Thr	Ala 25	Leu	Leu	Phe	Leu	Ile 30	15 Leu	Ala
1 His Thr	Ala 35	Met 20 Gln	5 His Ala	Tyr Phe	Pro 	Thr Ile 40	Ala 25 Cys	Leu Ala	Leu Phe	Phe Asn	Leu Ala '45	Ile 30 Gln	15 Leu Arg	Ala Leu
His Thr Asn Gly	Ala Ala 35 Ala	Met 20 Gln Lys	5 His Ala Val	Tyr Phe Ala Asp	Pro Arg Arg 55	Thr Ile 40	Ala 25 Cys Gln Val	10 Leu Ala Val	Leu Phe Met	Phe Asn Asp 60	Leu Ala *45 Thr	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg
His Thr Asn Gly Thr Leu 50 Ile Leu	Ala 35 Ala	Met 20 Gln Lys Arg	5 His Ala Val Cys	Tyr Phe Ala Asp 70	Pro Arg Arg 55	Thr Ile 40 Glu Met	Ala 25 Cys Gln Val	10 Leu Ala Val Leu	Leu Phe Met Gln 75	Phe Asn Asp 60	Leu Ala '45 Thr Val	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg Ser 80
His Thr Asn Gly Thr Leu 50 Ile Leu 65	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg	His Ala Val Cys Ile 85	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu	Thr Ile 40 Glu Met Leu	Ala 25 Cys Gln Val	10 Leu Ala Val Leu Arg 90 Ser	Leu Phe Met Gln 75 Glu	Phe Asn Asp 60 Glu Leu	Leu Ala '45 Thr Val	Ile 30 Gln Leu Val	15 Leu Arg Val Asp Phe 95	Ala Leu Arg Ser 80 Asp
His Thr Asn Gly Thr Leu 50 Ile Leu 65 Ser Gly Gly Ser Thr Tyr	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg Ala Pro 100 Glu	His Ala Val Cys Ile 85 Tyr	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu Thr	Thr Ile 40 Glu Met Leu Leu	Ala 25 Cys Gln Val Leu Ser 105	Leu Ala Val Leu Arg 90 Ser	Leu Phe Met Gln 75 Glu Pro	Phe Asn Asp 60 Glu Leu Gln Ser	Leu Ala '45 Thr Val Asn	Ile 30 Gln Leu Val Arg Gly 110	Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp

	130					135					140				
Glu 145	Pro	Phe	Val	Ala	Gln 150	Phe	Ser	Leu	Pro	Ser 155	Asn	Val	Leu	Pro	Ser 160
Leu	Val	Leu	Val	Pro 165	Leu	His	Thr	Thr	Pro 170	Lys	Ala	Val	Glu	Lys 175	Glu
Leu	Asn	Ala	Leu 180	туг	Asp	Val	Phe	Leu 185	Glu	Val	Ser	Gln	His 190	Trp	Gln
Ser	Lys	Asp 195	Val	Ile	Leu	Leu	Gly 200	Asp	Phe	Asn	Ala	Asp 205	Cys	Ala	Ser
Leu	Thr 210	Lys	Lys	Arg	Leu	Asp 215	Lys	Leu	Glu	Leu	Arg 220	Thr	Glu	Pro	Gly
Phe 225	His	Trp	Val	Ile	Ala 230	Asp	Gly	Glu	Asp	Thr 235	Thr	Val	Arg	Ala	Ser 240
Thr	His	Cys	Thr	Tyr 245	Asp	Arg	Val	Val	Leu 250	His	Gly	Glu	Arg	Cys 255	Arg
Ser	Leu	Leu	His 260	Thr	Ala	Ala	Ala	Phe 265	Asp	Phe	Pro	Thr	Ser 270	Phe	Gln
Leu	Thr	Glu 275	Glu	Glu	Ala	Leu	Asn 280	Ile	Ser	Asp	His	Tyr 285	Pro	Val	Glu
Val	Glu 290	Leu	Lys	Leu	Ser	Gln 295	Ala	His	Ser	Val	Gln 300	Pro	Leu	Ser	Leu
Thr 305	Val	Leu	Leu	Leu	Leu 310	Ser	Leu	Leu	Ser	Pro 315	Gln	Leu •	Cys	Pro	Ala 320
Ala	-	-								-		٠			
<210	)> 11	.00								•					
	.> 60														
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<213> Homo sapiens

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Met His Phe Leu Pro Leu Ile Leu Glu Lys Thr Phe Thr Val Ile Tyr
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Met Val Phe Cys Lys Arg Thr Ile Asn Arg Thr Phe
          55
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Gly Glu Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu
    20
Leu Pro Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser
       35 40
Phe Lys Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ile
    50 55 60
Leu Ala Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu
                                75
Leu Ser Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys
Val Leu Arg Lys Ile Glu Lys Pro Phe Gly Leu Tyr Pro Asn Phe Leu
     100 105 110
Ser Pro Val Ser Gly Asn Trp Val Gln His His Val Ser Val Gly Gly
   115 120 125
Leu Gly Asp Ser Phe Tyr Glu Tyr Leu Ile Lys Ser Trp Leu Met Ser
```

 Gly
 Lys
 Thr
 Asp
 Met
 Glu 150
 Ala Lys
 Asn Met 155
 Tyr
 Glu Ala Leu Ala 160

 Ala Xaa
 Arg
 Asp Leu 165
 Leu Ala Glu Cys
 Xaa Ser Arg Gly Arg 170
 Ala Asp Gly Ala Asp Leu 175
 Leu 175

 His Cys
 Arg Val Ala Arg Gly Ala Asp 180
 Asp Ser Gly Pro Gly 180
 Asp Gly Pro Glu Asp Gly Ala Pro 190
 Ala Pro 190

 Gly
 Leu Phe 195
 Leu Arg Gly His Asp Arg Ala His Tyr Arg Glu Leu Ala Ala Ala Gly 200
 Ala Arg Ser Asp Thr Lys 230
 Ala Ala Cys 230
 Ala Arg 230
 Arg Pro 235
 Thr Lys Leu Gly Pro Glu 240

 Ala Ser Gly
 Leu Thr 245
 Pro Ala Glu Arg Pro 250
 Trp Pro Pro Pro Ser
 Ser Ser Ser Pro Pro Pro Ser

<210> 1102 <211> 233 <212> PRT

<213> Homo sapiens

<400> 1102

Gly Pro Gly Trp Tyr Pro Ala Pro Leu Arg Leu Phe His Ser Asp Pro 1 5 10 15

Trp Gly His Ala Gln Pro Gly Ala Lys Arg His Arg Ile Pro Glu Pro
20 25 30

Glu Ala Ala Val Leu Phe Arg Gln Met Ala Thr Ala Leu Ala His Cys 35 40 45

His Gln His Gly Leu Val Leu Arg Asp Leu Lys Leu Cys Arg Phe Val 50 60

Phe Ala Asp Arg Glu Arg Lys Lys Leu Val Leu Glu Asn Leu Glu Asp 65 70 75 80

Ser Cys Val Leu Thr Gly Pro Asp Asp Ser Leu Trp Asp Lys His Ala 85 90 . 95

Cys Pro Ala Tyr Val Gly Pro Glu Ile Leu Ser Ser Arg Ala Ser Tyr 100 105 110

Ser	: Gly	Lys 115		a Ala	a Asp	val	120		Leu	ı Gly	/ Val	125		ı Phe	Th.
Met	Leu 130		ı Gly	/ His	Tyr	Pro 135		Glr	Asp	Ser	Glu 140		Va]	Leu	l Le
Phe	Gly	Lys	Ile	Arg	150		Ala	Tyr	Ala	Leu 155		Ala	Gly	/ Leu	Se:
Ala	Pro	Ala	Arg	Cys 165		.Val	Arg	Cys	Leu 170		Arg	, Arg	, Glu	Pro	
Glu	Arg	Leu	Thr 180		Thr	Gly	Ile	Leu 185		His	Pro	Trp	Leu 190		Glr
Asp	Pro	Met 195		Leu	Ala	Pro	Thr 200	Arg	Ser	His	Leu	*Trp		Ala	Ala
Gln	Val 210		Pro	Asp	Gly	Leu 215	Gly	Leu	Asp	Glu	Ala 220		Glu	Glu	Glu
Gly 225	Asp	Arg	Glu	Val	Val 230	Leu	Tyr	Gľy	٠.` -	٠.	• :			· - ·.	·
		÷													
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	3> H		sapi	ens					•						:
	0> 1:							• •			. :				
Cys 1	Gln	Leu	Arg	Ser 5	Ala	Ala	Gly	Val	Pro 10	Ser	Ser	Val	Ser	Val 15	Ser
Pro	Arg	Asp	Pro 20	Ile	Ala	Met	Glu	Leu 25	Ser	Asp	Ala	Asn	Leu 30	Gln	Thr
Leu	Thr	Glu 35	Tyr	Leu	Lys	Lys	Thr 40	Leu	Asp	Pro	Asp	45	Ala		Arg
Arg	Pro 50	Ala	Ğlu	Lys	Phe	Leu 55	Glu	Ser	Val	Glu	Gly 60				Tyr
Pro 65	Leu i	Leu	Leu	Leu	Thr 70	Leu	Leu	Glu	Lys	Ser 75	Gln	Asp	Asn	Val	Ile 80
Lys	Val	Cys	Ala	Ser 85	Val	Thr	Phe	Lys.	Asn 90	Tyr	Ile	Lys	Arg	Asn 95	Trp
Arg	Ile	Val	Glu	Asp	Glu	Pro	Asn	Lys	Ile	Cys	Glu	Ala	Asp	Arg	val

			100					105					110		
Ala	Ile	Lys 115	Ala	Asn	Ile	Val	His 120	Leu	Met	Leu	Ser	Ser 125	Pro	Glu	Gln
Ile	Gln 130	Lys	Gln	Leu	Ser	Asp 135	Ala	Ile	Ser	Ile	Ile 140	Gly	Arg	Glu	Asp
Phe 145	Pro	Gln	Lys	Trp	Pro 150	-	Leu	Leu	Thr	Glu 155	Met	Val	Asn	Arg	Phe 160
Gln	Ser	Gly	Asp	Phe 165	His	Val	Ile	Asn	Gly 170	Val	Leu	Arg	Thr	Ala 175	His
Ser	Leu	Phe	Lys 180	Arg	Tyr	Arg	His	Glu 185	Phe	Lys	Ser	Asn	Glu 190	Leu	Trp
Thr	Glu	Ile 195	Lys	Leu	Val	Leu	Asp 200	Ala	Phe	Ala	Leu	Pro 205	Leu	Thr.	Asn
Leu	Phe 210	Lys	Ala	Thr	Ile	Glu 215	Leu	Суѕ	Ser	Thr	His 220	Ala	Asn	Asp [.]	Ala :
Ser 225	Ala	Leu	Arg	Ile	Leu 230	Phe	Ser	Ser	Leu	11e 235	Leu	Ile	Ser	Lys	Leu 240
Phe	Tyr	Ser	Leu	Asn 245	Phe	Gln	Asp	Leu	Pro 250	Glu	Phe	Phe	Glu	Asp 255	Asn
Met	Glu	Thr	Trp 260	Met	Asn	Asn	Phe	His 265	Thr	Leu	Leu	Thr	Leu 270	Asp	Asn
Lys	Leu	Leu 275	Gln	Thr	Asp	Asp	Glu 280	Gļu	Glu	Ala	Gly	Leu 285	Leu	Glu	Leu
Leu	Lys 290	Ser	Gln	Ile	Cys	Asp 295	Asn	Ala	Ala	Leu	Tyr 300	Ala	Gln	Lys	Tyr
Asp 305	Glu	Glu	Phe	Gln	Arg 310	Tyr	Leu	Pro	Arg	Phe 315	Val	Thr	Ála	Ile	Trp 320
Glu	Phe	Thr	Ser	туг 325	Asn	Gly	Ser	Arg	Gly 330						

<210> 1104

<211> 180

<212> PRT

<213> Homo sapiens

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Gly Thr Ser Pro Gly Arg Gly Gly Kaa Gly Val Gly Leu Arg Gly Leu
      5 10
Ser Ser Leu Gln Ala Pro Gln Pro Ser Arg Val Pro Trp Pro Met Ala
                    25
Ala Tyr Ser Tyr Arg Pro Gly Pro Gly Ala Gly Pro Gly Pro Ala Ala
                                      45
      Gly Ala Ala Leu Pro Asp Gln Ser Phe Leu Trp Asn Val Phe Gln Arg
    50 55 60
   Val Asp Lys Asp Arg Ser Gly Val Ile Ser Asp Thr Glu Leu Gln Gln
            70
                      75
Salar Salar Salar Salar Salar Salar
```

- 95.65 (1) st

Ala Leu Ser Asn Gly Thr Trp Thr Pro Phe Asn Pro Val Thr Val Arg 95

Ser Ile Ile Ser Met Phe Asp Arg Glu Asn Lys Ala Gly Val Asn Phe 110

Ser Glu Phe Thr Gly Val Trp Lys Tyr Ile Thr Asp Trp Gln Asn Val 125

Phe Arg Thr Tyr Asp Arg Asp Asn Ser Gly Met Ile Asp Lys Asn Glu 130

Leu Lys Gln Ala Leu Xaa Val Ser Ala Thr Gly Ser Leu Thr Ser Ser 160

Thr Thr Ser Ser Phe Glu Xaa Leu Thr Gly Xaa Gly Arg Gly Xaa Ser 175

<210> 1105 <211> 241 <212> PRT <213> Homo sapiens

Xaa Ser Thr Xaa

180

<400> 1105

Thr Thr Arg Phe Pro Ser Gly Gln Pro Leu Lys Pro Arg Pro Thr Leu

1 5 10 15

Thr Ala Ala Gly Pro Arg Pro Gly Leu Leu Cys Phe Thr Ile Tyr Ile
20 25 30

Met Asn Pro Ser Met Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile 35 40 45

Lys Asn Ser Ser Val Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser 50 60

Ala Ser Gly Ser Leu Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu 65 70 75 80

Ser Lys Arg Lys His Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser 85 90 95

Pro Gly Val Ile Val Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly
100 105 110

Val Thr Glu Ser Phe Asp Leu Met Ile Lys Glu Asn Pro Ser Ser

		115					120					125	i		
Gln	Tyr 130		Lys	Glu	Val	Ala 135		Lys	Arg	Arg	Lys		Leu	Tyr	Glu
Ala 145		Lys	Glu	Asn	Glu 150		Leu	His	Lys	Glu 155		Glu	Gln	Lys	Asp
Asn	Glu	Ile	Ala	Arg 165		Lys	Lys	Glu	Asn 170	Lýs	Glu	Leu	Ala	Glu 175	Val
Ala	Glu	His	Val 180	Gln	Tyr	Met	Ala	Glu 185		Ile	Glu	Arg	Leu 190		Gly
Glu	Pro	Leu	Asp	Asn	Phe	Glu	Ser	Leu	Asp	Asn	Gln	Glu	 Þhe	Asp	Ser
		195					200					205			-
Glu	Glu 210	Glu	Thr	Val	Glu	Asp 215	Ser	Leu	Val	Glu	Asp 220	Ser	Glu	Ile	Gly
The	Cvc	٠.	C1	C1		*** 3		·	°	mb m					
225		MIG	Giu	GTÅ	230	var	ser	ser	ser	Thr 235	Asp	Ala	гуу	Pro	240
Ile		• .*				•	:		23.		-· .	* - **	· •		-
<21 <21	0> 1: 1> 8: 2> P: 3> He	B RT	sapi	ens											
<401	0> 1:	106				•									
	His		Glu	Phe 5	Ile	Thr	Ile	Trp	Asp 10	Val	Arg	Gln	Cys	Ser 15	Asn
Lys	His	Cys	Gln 20		Val	Asn	Phe	Leu 25		Ser	Val	Gly	His 30	Ile	Ala
Lys	Asn	Leu 35	Leu	Lys	His	Asn	Cys 40	Ile	Phe	Cys	Phe	Arg 45	Ala	Leu	Leu
Met	Phe 50	Cys	Arg	Ser	Asñ	Va1 55	Cys	Ile	Phe	Leu	Leu 60	Asn	Lys	Leu	Val
Leu 65	Ile	Leu	Glu	Leu	Ser 70	Asp	Asp	Phe		Leu 75	Glu	Arg	Thr	Thr	Gln 80
Arg	Arg	Gln	Cys	Lys 85	Ser	Lys	Ser	•							•

<210> 1107

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<211> 124
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Leu Val Val Leu Lys Arg Arg Pro Glu Lys Ser Gln Gly His Glu His
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Arg Ala Met Pro Phe Leu Asp Ile Gln Lys Arg Phe Gly Leu Asn Ile
                                 25
Asp Arg Trp Leu Thr Ile Gln Ser Gly Glu Gln Pro Tyr Lys Met Ala
Gly Arg Cys His Ala Phe Glu Lys Glu Trp Ile Glu Cys Ala His Gly
Ile Gly Tyr Thr Arg Ala Glu Lys Glu Cys Lys Ile Glu Tyr Asp Asp
                                        75
Phe Val Glu Cys Leu Leu Arg Gln Lys Thr Met Arg Arg Ala Gly Thr
                                     90
                 85
Ile Arg Lys Gln Arg Asp Lys Leu Ile Lys Glu Gly Lys Tyr Thr Pro
                                105
Pro Pro His His Ile Gly Lys Gly Glu Pro Arg Pro
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<400> 1108
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His 1		ı Leu	Cys	Cys 5		Ala	Gln	Arg	Arg 10		Gln	Thr	Pro	Pro 15	
Ala	Arg	Gly	Leu 20										Ala 30	-	Xaa
	Pro	Leu 35	Leu		Ala									Leu	Val
Val	Leu 50	Leu	Leu	Leu	Leu	Arg . 55	His	Trp	Gly	Trp	Gly 60	Leu	Cys	Leu	Ile
	Trp		Glu	Phe	Ile 70			Pro					Leu		
Asp	Thr	Lys	Glu	Gln .85	Arg	Ile	Leu	Asn	His 90	Val	Leu ::	Gln	His	Ala . 95	Glu
`:	-	: .	Ala 10 <b>0</b>					105	• •	*	·	-	110		·
		115	Trp				120	+		* 2		125			٠,
	130					135					140		-	. :	
145	٠		Gly		150					155	- :	-			1.60
				165		F .	. "		170		• .	•		175	:
					. •	:	1.	185		-9			190		•
		195			-		200				'	205			
	210		Thr			215		•			220				
225		• •	Asp		230		1	· · · · .		235		•			240
	•		Leu : .	245	· -	•	-	٠	250			٠		255	
Phe	Leu		His 260									Cys		His	Tyr

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<212> PRT
<213> Homo sapiens
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Leu Thr Arg Arg Leu Thr Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser
Leu Arg Leu Thr Gly Ser Ser Ala Gln Glu Xaa Ala Ser Gly Val Ala
                             40
Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr Ser
     50
Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys Arg
                     70
Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe Asn
Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Ile Ser Gly Ala
Gly Lys Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser Asp
                           120
Ile Leu Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr Leu
    130
Arg Asp Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu Arg
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Cys Pro Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly Gly
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170 ·

GI	/ vai	L Asp	180		l Thr	Alá	a Cys	185		e Arq	ј Туј	c Cys	190		n Ası
Ala	Ph∈	Ph∈ 195		Val	Lys	Glu	val 200		Va]	Gly	/ Lei	1 Ala 205		Asp	va:
Gly	210	Leu	Gln	Arg	Leu	215		Val	. Ile	e Gly	220		Ser	Leu	ı Val
Asn 225		Leu	Ala	Phe	230		Arg	Lys	Met	Met 235		Asp	Glu	Ala	Let 240
Gly	Ser	Gly			Ser					Asp			Val		
Asp	Ala	Ala	Leu 260		Leu	Ala	Ala	Glu 265		Ser	Ser	Lys	Ser 270		Val
Ala	. Cys	Arg 275		Pro	Arg	Şer	Thr 280	Cys	_. Cys	Ile	. Pro	Ala 285		Ile	Arg
Trp	Pro 290	Arg	Ala	Ser	Thr	Thr 295		Arg	Pro		Thr 300				
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Arg 1	Ser	Cys	Ala	Leu 5	Val	Cys	Lys	His	Trp	Tyr	Arg	Cys	Leu	His 15	Gly
Asp	Glu	Asn	Ser 20	Glu	Val	Trp	Arg	Ser 25	Leu	Cys	Ala	Arg	Ser 30	Leu	Ala
		Ala 35					40		Cys			Pro 45		_	Lys
Ala	Lys 50	Ile	Arg	Ala	Phe	Gln 55	His				Thr 60			Cys	Ser
Arg 65	Asn	Val	Tyr	Ile	Lys 70	Lys	Asn		Phe	Thr 75	Leu		Arg	Asn	Pro 80
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Ala Val Ile Gly Ile Ala Thr Lys Arg Ala Pro Met Gln Cys Gln Gly
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Tyr Val Ala Leu Leu Gly Ser Asp Asp Gln Ser Trp Gly Trp Asn Leu
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Val Asp Asn Asn Leu Leu His Asn Gly Glu Val Asn Gly Ser Phe Pro
Gln Cys Asn Asn Ala Pro Lys Tyr Gln Ile Gly Glu Arg Ile Arg Val
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Ile Leu Asp Met Glu Asp Lys Thr Leu Ala Phe Glu Arg Gly Tyr Glu
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Gln	Lys	Asn 35		Lys	Asn	Thr	Val		Cys	Ile	Asp	Ile 45	Cys	Thr	Val
	Val . 50		Val						_	Phe		<del>-</del>		:	. *
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Ile	Tyr	Glu	Met 20	Ala	Glu 	Asn	Gly	Lys 25	Asn	Cys	Asp	Gln	Arg 30	Arg	Val
Ala	Met	Asn 35	Lys	Glu	His	His	Asn 40	Gly 	Asn	Phe	Thr	Asp 45	Pro	Ser	Ser
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Leu 65	Trp	Arg	Gln	Pro	Leu 70	Ile	Thr	Leu	Gln	Tyr .75.	Phe	Ser	Leu	Glu	Ile 80.
Leu	Val									Leu					

Ile	Val	Val	Ser 100	Phe	Leu	Leu	Leu	Leu 105	Ala	Val	Leu	Ile	Ala 110	Thr	Tyr
Туr	Val	Glu 115	Gly	Val	His	Gln	Gln 120	Tyr	Val	Gln	Arg	Ile 125	Glu	Lys	Gln
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Ile	Ala	Ser	Val	Thr 165	Leu	Ala	Ala	туг	Glu 170	Cys	Asn	Ser	Val	Asn 175	Phe
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Glu	Glu	Tyr	Gln	Glu 245	Phe	Glu	Glu	Met	Leu 250	Glu	His	Ala	Glu	Ser 255	
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His	Ile	Gln	Lys	11e 325	Phe	Val	Ile	Ile	Thr 330	Phe	Ser	Lys	His	11e 335	Val
Glu	Gln	Met	Val 340	Ala	Phe	Ile	Gly	Ala 345	Val	Pro	Gly		Gly 350	Pro	Ser
Leu	Gln	Lys	Pro	Phe	Gln		Tyr	Leu	Glu	Ala	Gln	Arg	Gln	Lys	Leu

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser 370 375 380

Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu 385 390 395 400

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Phe Gly Thr Ser Ser Ser Thr Pro Ala Arg Pro Ser Ser His His Ser 35 40 45

Ala Cys Phe Leu Gly Pro Glu Ile Met Pro Leu Gly Leu Leu Trp Leu 50 55 60

Gly Leu Ala Leu Leu Gly Ala Leu His Ala Gln Ala Gln Asp Ser Thr 65 70 75 80

Ser Asp Leu Ile Pro Ala Pro Pro Leu Ser Lys Val Pro Leu Gln Gln 85 90 95

Asn Phe Gln Asp Asn Gln Phe Gln Gly Lys Trp Tyr Val Val Gly Leu 100 105 110

Ala Gly Asn Ala Ile Leu Arg Glu Asp Lys Asp Pro Gln Lys Met Tyr
115 120 125

Ala Thr Ile Tyr Glu Leu Lys Glu Asp Lys Ser Tyr Asn Val Thr Ser

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Val 145	Leu	Phe	Arg	Lys	Lys 150	Lys	Cys	Asp	Tyr	Тгр 155	Ile	Arg	Thr	Phe	Val 160
Pro	Gly	Cys	Gln	Pro 165	Gly	Glu	Phe	Thr	Leu 170	Gly	Asn	Ile	Lys	Ser 175	туr
Pro	Gly	Leu	Thr 180	Ser	Tyr	Leu	Val	Arg 185	Val	Val	Ser	Thr	Asn 190	Tyr	Asn
Gln	His	Ala 195	Met	Val	Phe	Phe	Lys 200	Lys	Val	Ser	Gln	.Asn 205	Arg	Glu	Туг
Phe	Lys 210	Ile	Thr	Leu	Tyr	Gly 215	Arg	Thr	Lys	Glu	Leu 220		Ser	Glu	Leu
Lys 225	Glu	Asn	Phe	Ile	Arg 230		Ser	Lys	Ser	Leu 235	Gly	Leu	Pro	Glu	Asn 240
His	Ile	Val	Phe	Pro 245	Val	Pro	Ile	Asp	Gln 250	Cys	Ile	Asp	Gly		
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Met Thr Val Glu Gly Pro Pro Pro Lys Asp Thr Gly Ile Ala Arg Val

Pro	Leu	Ala 115	Gly	Ala	Ala	Gly	Gly 120	Pro	Gly			Arg 125	Ala	Ala	Gly
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71- A	c1	D	*** 1	<b>3</b>	C1	*** 1	<b>~</b> 1		<b>-</b>		<b>-</b> 1	<b>~1</b>			
Ala (			vai									GIN			
143			•		1.50	-				155	*'				100
Pro (	Gln		Ara	Glv	Thr	Val	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Thr	Ala
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Ser :															Pro
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Pro 1	Pro	Pro	Met	Gly	Arg	Gly	Ala	Pro	Pro	Pro	Gly	Met	Met	Gly	Pro
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Pro 1	Dra	Gl v	Ma+		Pro	Pro	Mat	Clv.	Bro	Bro	Mot	G1	т10	D=0	D=-
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Gly /	Arg	Gly	Thr	Pro	Met	Gly	Met	Pro	Pro	Pro	Gly	Met	Arg	Pro	Pro
225					230	_			~	235	_		_		240
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Pro I	Pro	Gly	Met	-	Gly	Leu	Leu								
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_	Thr	Lys	GIĄ		Lys	Ser	Trp	хаа			Ala	vaı	xaa		Ala
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Leu	Glu	Leu	Val	Xaa	Pro	Pro	Gly	Cys	Arg	Asn	ser	Ala	Arg	Ala	Xaa
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Pro	Pro	Leu	Gly	Ser	Ser	Pro	Leu	Gly	Arg	Arg	Phe	Arg	Val	Leu	Ser
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Ser	Leu	Ara	Ara	Ser	Pro	Met	Phe	Glu	Glu	Lvs	Ala	Ser	Ser	Pro	Ser
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Clar	Tue	Mot	G1 11	C111	Cl.	G1 is	Lys	Dro	Tlo	C111	A 1 -	Cl w	GI.	Clu	T 1.00
	БУЗ	Met	GLY	GIY		GIU	Lys	PLO	116	_	ALG	Gry	GIU	Gru	_
65					70					75					80
	_				_	_	_	_	_			_		_	
GIn	Lys	Glu	Gly		Lys	Lys	Lys	Asn	_	Glu	Gly	Ser	Gly		Gly
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Gly	Arg	Ala	Glu	Leu	Asn	Pro	Trp	Pro	Glu	Tyr	Ile	Tyr	Thr	Arg	Let
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Glu	Met	Tyr	Ásn	Ile	Leu	Lys	Ala	Glu	His	Asp	Ser	Ile	Leu	Ala	Glu
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Lvs	Ala	Glu	Lvs	Asp	Ser	Lvs	Pro	Tle	Lvs	Val	Thr	Leu	Pro	Asp	G1 v
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	130					133					140				
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	GIII	var	ASP	Ald		ser	Trp	Lys	THE		PIO	TAL	GIN	11e	
145					150					155	•				160
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Cys	Gly	Ile	Ser		Gly	Leu	Ala	Asp		Thr	Val	Ile	Ala	Lys	Val
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Asn	Asn	Val	Val	Trp	Asp	Leu	Asp	Arg	Pro	Leu	Glu	Glu	Asp	Cys	Thr
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Leu	G] 11	Leu	Leu	Lvs	Phe	G] u	Asp	Glu	Glu	Ala	Gln	Ala	Va 1	Tvr	Trn
		195		-1-			200					205		-1-	
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Hie	Ser	Ser	Δla	Hie	Tla	Met	Gly	Glu	Δla	Met	Glu	Ara	V=1	ጥህን	G1
	210		ALG	*11.3		215		J14	*****		220	AL Y	AGT	- A -	СТУ

Gly 225		Leu	Cys	Tyr	Gly 230		Pro	Ile	Glu	235	1	Phe	Tyr	Tyr	Asp 240
Met	Tyr	Leu	Glu	Glu 245	Gly	Gly	Val	Ser	Ser 250			Phe	Ser	Ser 255	
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	Lys 290				Leu	295	Glu					Pro		Thr	Thr
Val 305		Arg			Pro 310		Ile	Asp	Leu	Cys 315		Gly	Pro	His	Val 320
			Gly	325	Ile	Lys	Ala	Leu	Lys 330	Ile	His	Lys	Asn	Ser 335	Ser
Thr	Tyr	Trp	Glu 340		Lys								Arg 350	Ile	Tyr
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Gln	Glu 370	Glu	Ala	Lys	Asn	Arg 375		-	Arg	Lys	Ile 380	Gly	Arg	Asp	Gln
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Pro	Lys	Gly	Ala	Tyr 405	Ile	Tyr	Asn	Ala	Leu 410	Ile	Glu	Phe	Ile	Arg 415	Ser
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Phe 625	Asn	Leu	Thr	Tyr	Val 630	Ser	His	Asp	Gly	Asp 635	Asp	Lys	Lys	Arg	Pro 640
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Ile	Leu	Thr	Glu 660	Asn	Tyr	Gly	Gly	Lys 665	Trp	Pro	Phe	Trp	Leu 670	Ser	Pro
Arg	Gln	Val 675	Met	Val	Val	Pro	Val 680	Gly	Pro	Thr	Cys	Asp 685	Glu	туг	Ala
Gln	Lys 690	Val	Arg	Gln	Gln	Phe 695	His	Asp	Ala	Lys	Phe 700	Met	Ala	Asp	Ile
Asp 705	Leu	Asp	Pro	Gly	Cys 710	Thr	Leu	Asn	Lys	Lys 715	Ile	Arg	Asn	Ala	Gln 720
Leu	Ala	Gln	Tyr	Asn 725	Phe	Ile	Leu	Val	Val 730	Gly	Glu	Lys	Glu	Lys 735	Ile
Ser	Gly	Thr	Val 740	Asn	Ile	Arg	Thr	Arg 745	Asp	Asn	Lys	Val	His 750	Gly	Glu
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Arg Ser Lys Gln Ala Glu Glu Glu Phe

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775
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Trp Ala Met Val Ser Xaa Met Glu Ile-Asp Gln Pro Ala Gly Thr Gly
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Thr Leu Ser Arg Thr Asn Pro Pro Thr Gln Lys Pro Pro Ser Pro Pro
      50
                         55
Met Ser Gly Arg Gly Thr Leu Gly Arg Asn Thr Pro Tyr Lys Thr Leu
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Glu Pro Val Lys Pro Pro Thr Val Pro Asn Asp Tyr Met Thr Ser Pro
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                                      90 --
Ala Arg Leu Gly Ser Gln His Ser Pro Gly Arg Thr Ala Ser Leu Asn
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Pro 145	Ser	Pro	Pro	Thr	Ile 150	Gly	Pro	Ala	Ala	Pro 155	Gly	Ser	Ala	Pro	Gly 160
Ser	Gln	Tyr	Gly	Thr 165	Met	Thr	Arg	Gln	Ile 170	Ser	Arg	His	Asn	Ser 175	Thr
Thr	Ser	Ser	Thr 180	Ser	Ser	Gly	Gly	Туг 185	Arg	Arg	Thr	Pro	Ser 190	Val	Thr
Ala	Gln	Phe 195	Ser	Ala	Gln	Pro	His 200	Val	Asn	Gly	Gly	Pro 205	Leu	Tyr	Ser
Gln	Asn 210	Ser	Ile	Ser	Île	Ala 215	Pro	Pro	Pro	Pro	Pro 220	Met	Pro	Gln	Leu
Thr 225		Gln	Ile	Pro	Leu 230	Thr	Gly	Phe	Val	Ala 235	Arg	Val	Gln	Glu	Asn 240
Ile	Ala	Asp	Ser	Pro 245	Thr	Pro	Pro	Pro	Pro 250	Pro	Pro	Pro	Asp	Asp 255	Ile
Pro	Met	Phe	Asp 260	Asp	Ser	Pro	Pro	Pro 265	Pro	Pro	Pro	Pro	Pro 270	Val	Asp
Tyr	Glu	Asp 275	Glu	Glu	Ala	Ala	Val 280	Val	Gln	Tyr	Asn	Asp 285	Pro	Tyr	Ala
Asp	Gly 290	Asp	Pro	Ala	Trp	Ala 295	Pro	Lys	Asn	Tyr	Ile 300	Glų	Lys	Val	Val
Ala 305	Ile	Tyr	Asp	Tyr	Thr 310		Asp	Lys		Asp 315		Leu	Ser	Phe	Met 320
Glu	Gly	Ala	Ile	Ile 325	Tyr	Val	Ile	Lys	Lys 330	Asn	Asp	Asp	Gly	Trp 335	Tyr
Glu	Gly	Val	Cys 340	Asn	Arg	Val	Thr	Gly 345	Leu	Phe	Pro	Gly	Asn 350	Туг	Val
Glu	Ser	11e 355	Met	His	Tyr	Thr	Asp 360								•

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Ala Leu Trp Gly Gly Ser Ser Pro Ile Pro Asp Ala Pro Thr Thr Gln
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                          25 - 30 -
Trp Lys Val Thr Lys Pro Ala Pro Cys Pro Arg Pro Arg Arg Val Glu
Pro Val Cys Ser Gly Leu Gln Ala Gln Ile Leu His Cys Tyr Arg Asp
Arg Pro His Glu Val Leu Leu Cys Ser Asp Leu Val Lys Ala Tyr Gln
 65
                70 -
Arg Cys Val Ser Ala Xaa His Lys Gly
             85
         than the first will be built to the constraint of the con-
<210> 1118
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Arg Gly Val Val Asp Ser Glu Asp Leu Pro Leu Asn Ile Ser Arg Glu
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Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg Lys Asn Ile Val
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                          25
Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala Glu Asp Lys Glu Asn
       35 40 45
Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys Asn Leu Lys Leu Gly Ile
His Glu Asp Ser Thr Asn Arg Arg Leu Ser Glu Leu Leu Arg Tyr
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65					70	•				75					80
His	Thr	Ser		Ser 85				Met	Thr	Ser	Leu	Ser	Glu	-	Val
Ser	Arg	Met	Lys 100	Glu	Thr	Gln	Lys	Ser 105		Tyr	Tyr	Ile	Thr 110	_	Glu
Ser		Glu 115	Gln	Val	Ala	Asn	Ser 120	Ala	Phe	"Val	Glu	Arg 125	Val	Arg	Lys
Arg	Gly 130		Glu	Val	Val	Туг 135	Met	Thr	Glu	Pro	Ile 140	Asp	Glu	Tyr	Суѕ
Val: 145	Gln	Gln	Leu		Glü 150	Phe	Asp	Gly		Ser 155	Leu	Val:	Ser	Val	Thr 160
Ĺýs	Glu	Gly	Leu	Glu 165	Leu	Pro	Glu	Asp	Glu 170	Glü	Gľu	Lys	Ŀys	Lys 175	Met
Glu	Glu	Ser	Lys 180	Ala	Ľýs	Phe		Asn 185	Leu	Cys	Lys	Leu	Met 190	Lys	Glu
Ile	Leu	Asp 195	Lys	Lys	Val	Glu	Lys 200	Val-	Thr	Ile	Ser	Asn 205	Arg	Leú	Val
Ser	Ser 210	Pro	Суз	Суз	Ile	Val 215	Thr	Ser	Thr	Tyr	Gly 220	Trp	Thr	Ala	Asn
Met 225	Glű	Arg	Ile	Met	Lys 230	Alā	Gln	Ala	Leu	Arg 235	Asp	Asn	Ser	Thr	Met 240
Gly	Tyr	Met	Met	Ala 245	Lys	Lys	His	Leu	Glu 250	Ile	Asn	Pro	Asp	His 255	Pro
Iľė	Val	Glu	Thr. 260	Leu	Arg	Gln	Lys	Ala 265	Glu	Ala	Asp	Lys	Asn 270	Asp	Lys
Ala	Val	Lys 275	Asp	Leu	VaI	Val	Leu 280	Leu	Phe	Glu	Thr	Ala 285	Leu	Leü	Ser
	Gly 290	Phe	Ser	Leu	Glu	Asp 295	Pro	Gln	Thr	Hïs	Ser 300	Asn	Arg	Ile	Tyr
Arġ 305	Met	Ile	Lys'	Leu	Gly 310	Leu	Gly	Ile	Asp	Glu 315	Asp	Glu	Val	Ala	Ala 320
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185

Glu	Pro	Ser 195		Tyr	Thr	Cys	200		Cys	Lys	Gln	Pro 205		Thr	Sei
Ala	Trp 210		Leu	Leu	Gln	His 215	Ala	Gln	Asn	Thr	His 220		Leu	Arg	Ile
туг 225		Glu			230		Ser			235		_		_	11e
Pro	Ser	Gly		Gly 245	Ala	Glu	Cys	Pro	Ser 250	Gln	Pro	Pro	Leu	His 255	_
Ile	His		260	Asp	Asn	Asn	Pro	Phe 265	Asn	Leu	Leu	Arg	Ile 270	Pro	Gly
Ser		Ser 275	Arg	Glu	Ala	Ser	Gly 280	Leu	Gly	Arĝ	Arg	Ala 285	Leu	Ser	Thr
His	Ser 290	Pro					ī.1 ≡	: * #	: N.Ę		Thu	232			••
4	:			277	1. Table 1.	:	<u>.</u> .	· .	• -	· ~.·	-1 1	1.5		JN 2	: •
<21	0> 1: 1> 1: 2> Pi	90	. :	.72	*:::	٠				* .47	"	2 (2 ) 2 (3 )	9	• •	* **
			sapie	ens	••			177	•	في ٠	 1:1	• .			. * * :
<21°	3> Ho 0> 1. Ala	omo :	-				Pro				: : :	Arg	Ala	Arg 15	Asp
<21 <40 Ala 1	3> Ho 0> 1 Ala	omo s 120 Ala	Ala	Ala 5	Gly	Asp		Gly _.	Ala 10	Met	Gly			15	_
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		115	5				120	)				125	5		
Arg	130		a Lei	ı Ile	Ala	135		. Thi	: Asr	ı Val	l Glu 140	ı Trp	Lei	ı Leı	ı Ası
Ala 145		Туг	Gly	, Lys	Val 150		Thr	Asp	Glu	1 Glr 155		Glr	n Ala	val	160
Pro	Ser	Pro	Pro	Thr 165		Ala	Arg	Cys	Gly 170		Ser	Ser	· Val	. Ser 175	
Gln	Pro	Gly	Thr 180		Pro	Ala	. Arg	Thr 185		Ser	Ser	Arg	Pro 190		
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Gly 1	Arg	Lys	Trp	Phe 5	Cys	Pro	туг	Lys	Thr 10	Trp	Arg	Lys	Ala	Phe 15	Leu
Ser	Pro	Arg	Lys 20	Arg	His	Val	Met	Ser 25	Gln	Ser	Cys	Gly	Ala 30	Arg	Ala
Glu	Val	Gln 35	Ala	Thr	Gly	Ser	Asp 40	Gly	Ala	Pro	Thr	Lys 45	Ala	Leu	Gly
Leu	Val 50	Arg	Val	Ala	Ala	Val 55	Ser	Ser	Asp	Ser	Cys 60	Val	Val	Pro	Met
Val 65	Glu	Lys	Lys	Thr	Ser 70	Val	Arg	Ser	Gln	Asp 75	Pro	Gly	Gln	Arg	Arg 80
Val	Leu	Asp	Arg	Ala 85	Ala	Arg	Gln	Arg	Arg 90	Ile	Asn	Arg	Gln	Leu 95.	
Ala	Leu	Glu	Asn 100	Asp	Asn	Phe	Gln	Asp 105	Asp	Pro	His	Ala	Gly 110	Leu	Pro
Gln	Leu	Gly 115		Arg	Leu	Pro	Gln 120	Phe	Asp	Asp	Asp	Ala 125	Asp	Thr	Gly
Lys	Lys 130	Lys	Lys	Lys	Thr	Arg 135	Gly	Asp	His	Phe	Lys 140	Leu	Arg	Phe	Arg

Lys Asn Phe Gln Ala Leu Leu Glu Glu Gln Asn Leu Ser Val Ala Glu

155

160

150

Gly	Pro	Asn	Tyr	Leu 165		Ala	Cys	Ala	Gly 170		Pro	Ser	Arg	Pro 175	Gln
Arg	Pro	Phe	Cys 180		Val	Cys	Gly	Phe 185		Ser	Pro	-	Thr 190	-Cys	Val
Sér	Cys		Ala		Tyr		Thr 200			-Cys			Thr		Gln
Glu [.]	Thr 210		Cys		- Lys				1	·1 · *			<b>-</b> ·	•	- 1
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GLY 1	ASII	cys	GIN	Lys 5	Cys	MIG	Pne	GIY	: 10	Ser.	GLY	Ten	ASP	15.	Lys
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Asp	Lys	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Gly	Thr	Ile	Ala	Gly	Ile
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Val					Ile										Asn
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Asn	Lys	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe
	50														
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65	-	٠.			70		* * **		-	75					80-
Glv	Ser	Val	Phe	Pro	T.ve	Val	Ara	Tla	Thr.	· Δla	Ser	Ara	Asp	Ser	Gln
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Met	Gln	Asn	Pro	Tyr	Ser	Ser	His	Ser	Ser	Met	Pro	Arg	Pro	Asp	Tyr
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<213	> Hc	omo s	apie	ns											

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Gly 1		Leu	Val	Cys 5		Met	Val	Ser	Tyr 10		Asn	Asp	Leu	Pro 15	
Gln	Arg	Ile	Gln 20		Gln	Gln	Val	Ala 25		Trp	Pro	Thr	Met 30		Ası
Ile	Asn	Ser 35	Pro	Glu	Ser	Leu	Thr 40	Glu	Ala	Tyr	Lys	Leu 45	Arg	Ala	Alá
Arg	Leu 50	Val	Glu	Ile	Ala	Ala 55	Lys	Asn	Leu	Gln	Lys 60		Val	Ile	His
Arg 65		Ser	Lys	Glu	<b>Val</b> 70	Ala	Trp	Asn	Leu	Thr 75	Ser	Val	Asp	Leu	Val
Arg	Ala	Ser	Glu	Ala 85	His	Cys	His	Tyr	Val 90	Val	Val	Lys	Leu	Phe 95	Ser
Glu	Lys	Leu	Leu 100	Lys	Ile	Gln	Asp	Lys 105	Ala	Ile	Gln	Ala	Val 110	Leu	Arg
Ser	Leu	Cys 115	Leu	Leu	Tyr	Ser	Leu 120	Tyr	Gly	Ile	Ser	Gln 125	Asn	Ala	Gly
Asp	Phe 130	Leu	Gln	Gly	Ser	Ile 135	Met	Thr	Glu	Pro	Gln 140	Ile	Thr	Gln	Val
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Ala	Leu	Val	Asp	Ala 165	Phe	Asp	Phe	Gln	Asp 170	Val	Thr	Leu	Gly	Ser 175	Val
Leu	Gly	Arg	Tyr 180	Asp	Gly	Asn	Val	Туг 185	Glu	Asn	Leu	Phe	Glu 190	Trp	Ala
Lys	Asn	Ser 195	Pro	Leu	Asn	Lys	Ala 200	Glu	Val	His	Glu	Ser 205	Tyr	Lys	His
Leu	Lys 210	Ser	Leu	Gln	Ser	Lys 215	Leu								-

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Gly	Asp	Gly	Ala	Glu	Leu	Arg	Val	Leu	Val	Asp	Met	Asp	Gly	Val	Leu
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Ala															Pro
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Glu	Glu	Pro	His	Val	Pro	Leu	Glu	Gln	Arg	Arg	Gly	Phe	Leu	Ala	Arg
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Glu	Gln	Tyr	Arg	Ala	Leu	Arg	Pro	Asp	Leu	Ala	Asp	Lys	Val	Ala	Ser
65	** *			- 12	·7·0	7	- '			75					80
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Val	Tyr	Glu	Ala	Pro	Gly	Phe	Phe	Leu	Asp	Leu	Glu	Pro	Ile	Pro	Gly
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Ala	Leu	Asp	Ala	Val	Arg	Glu	Met	Asn	Asp	Leu	Pro	Asp	Thr	Gln	Val
•			100				:	105					110	: 2	
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Phe	Ile	Cys	Thr	Ser	Pro	Leu	Leu	Lys	Tyr	His	His	Cys	Val	Gly	Glu
·	•	115	4	<b>-</b> .			120		- 1		Ann	125	1 1		
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Lys											Gln				Arg
	130	٠.		-		135		* + 13			140	. :	'.	(	
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	Ile	Leu	Thr	Arg	Asp	Lys	Thr	Val	Val	Leu	Gly	Asp	Leu	Leu	
145				•	150			-	••	155	\$ <del></del> -	• • •			160
															•
Asp											Thr				
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HIS				Thr	Cys						Leu			Pro	Pro
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Thr	Arg		Arg	Leu	Leu	Ser		ser	Asp	Asn	Trp		Glu	Ile	Leu
		195			٠.		200	-		5 1		205	-		
	C	T	•	<b>~</b> 1								•			
			Arg	GIA	Ala		GIN	Arg	GIU						•
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-21A	. 11	25	-		- '	•						*		• •	
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Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
                  5
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Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
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Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Pro
Phe Phe Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
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Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
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Thr Ser Pro Ser Leu Lys Gly
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Trp Ala Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly Val Gly
Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys Gln Gln Cys
    50
Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
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Leu	Gly	Ser	Pro	Arg 85		Asp	Leu	Lys	90		Leu	Leu	Lys	Asp 95	
Cys	Ala	Pro	Glu 100		-	Glu		105	,				110		Leu
Glu	Asp	Arg	Pro								Asp			Gln	Val
Thr														Asp	
Ser 145		Asn	Phe	Ser	Ile 150		Val	Arg	Gln	Val 155		Asp	Tyr	Pro	Val 160
Asp	Ile	Tyr	Tyr	Leu 165		ïAsp	Leu	Ser	Туг 170		-Met	્ <b>Xaa</b>	∴Gly	99	
<21	0> 1 1> 3 2> P	59	13 1 J			T 75		₹ . ° \	1 1 .	2 T 238	• <del>•</del> • •	·*±	47.	• •	
<21	3>≐ ⊞	omo :	_										,	*	
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Pro 1		Pro	Phe	Gln 5	Gly	Ser	Gly	Cys	Val 10	Ile	Ala	Ile	Leu	Gly 15	Lys
Arg	Cys	Ser												Ser	
Arg	His	Ile 35	Cys	Ser	Trp	Cys	Thr 40	Met	Val	Ser	Gly	Thr 45	Ser	Ala	Ala
Val	Glu 50	Glu	Tyr	Ser	Суз	Glu 55	Phe	Gly	-Ser	Ala	Lys 60	Туг	Туг	Ala	Leu
Cys 65	Gly	Phe	Gly	Gly	Val 70	-Leu	Ser	Cys	Gly	<b>Leu</b> 75	Thr	His	Thr	Ala	Val 80
Val	Pro	Leu	Asp	Leu 85	Vāl	Lys	Cys	Arg	Met 90	Gln	Val	Asp	Pro	Gln 95	Lys
Tyr	Lys	Gly.	Ile 100	Phe	Asn	Gly	Phe	Ser 105	Val	Thr	Leu	Lys	Glu 110	Asp	Gly
Val:	Arg	Gly 115		Ala	Lys	Gly	Trp	Ala	Pro-	Thr	Phe	Leu 125	Gly	Tyr	Ser
10+	Gln	Glw	Lan	Cuc	Tvic	Bho	C1	Dha		~1	tra 1	Dh	<b>-</b> '	**- 1	

Leu Tyr Leu Ala Ala Ser Ala Ser Ala Glu Phe Phe Ala Asp Ile Al 175  Leu Ala Pro Met Glu Ala Ala Lys Val Arg Ile Gln Thr Gln Pro Gl 180  Tyr Ala Asn Thr Leu Arg Asp Ala Ala Pro Lys Met Tyr Lys Glu Gl 200  Gly Leu Lys Ala Phe Tyr Lys Gly Val Ala Pro Leu Trp Met Arg Gl 210  Ile Pro Tyr Thr Met Met Lys Phe Ala Cys Phe Glu Arg Thr Val Glu 225  Ala Leu Tyr Lys Phe Val Val Pro Lys Pro Arg Ser Glu Cys Ser Lys 245  Pro Glu Gln Leu Val Val Thr Phe Val Ala Gly Tyr Ile Ala Gly Val 265  Phe Cys Ala Ile Val Ser His Pro Ala Asp Ser Val Val Ser Val Leu 275  Asn Lys Glu Lys Gly Ser Ser Ala Ser Leu Val Leu Lys Arg Leu Gly 290  Phe Lys Gly Val Trp Lys Gly Leu Phe Ala Arg Ile Ile Met Ile Gly 200		130	)				135	•				140	)			
Leu Ala Pro Met Glu Ala Ala Lys Val Arg Ile Gln Thr Gln Pro Gl 180			Asn	Met	Leu			Glu	Asn	Thr			Trp	Arg	Thr	Sei 160
Tyr Ala Asn Thr Leu Arg Asp Ala Ala Pro Lys Met Tyr Lys Glu Gli 195	Leu	Туг	Leu	Ala			Ala	Ser	Ala			Phe	Ala	. Asp		
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210   215   220   220   216   220   220   225   220   235   235   235   235   235   246   246   246   235   235   235   235   235   236   247   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246   246	Tyr	Ala			Leu	Arg	Asp		Ala	Pro	Lys	Met			Glu	Glu
225	Gly			Ala	Phe	Tyr		Gly	Val	Ala	Pro			. Me.t	Arg	Gln
Pro       Glu       Glu       Leu       Val       Val       Phe       Val       Ala       Gly       Tyr       Ile       Ala       Gly       Val         Phe       Cys       Ala       Ile       Val       Ser       His       Pro       Ala       Asp       Ser       Val       Val       Ser       Val       Leu         Asn       Lys       Glu       Lys       Gly       Ser       Ser       Ala       Ser       Leu       Val       Leu       Lys       Arg       Leu       Gly         Phe       Lys       Gly       Leu       Phe       Ala       Asp       Ser       Val       Val       Leu       Gly         Phe       Lys       Gly       Leu       Phe       Ala       Asp       Ser       Val       Leu       Gly         Phe       Lys       Gly       Leu       Phe       Ala       Asp       Ser       Val       Lys       Leu       Gly         Phe       Lys       Ala       Asp       Ser       Val       Lys       Arg       Leu       Lys       Ala       Asp       Ser       Val       Lys       Arg       Leu       Lys       A		Pro	Tyr	Thr	Met		Lys	Phe	Ala	Cys		Glu	Arg	Thr	Val	Glu 240
Phe       Cys       Ala 1le       Val       Ser       His       Pro 280       Ala Asp Ser       Val       Val 285       Ser       Val       Leu 285         Asn       Lys       Glu       Lys       Gly       Ser       Ser       Ala Ser       Leu Val       Leu Lys       Arg       Leu Gly         Phe       Lys       Gly       Val       Trp       Lys       Gly       Leu Phe       Ala Arg       Ile       Ile       Met       Ile       Gly         305       Thr       Ala Leu Gln       Trp       Phe       Ile       Tyr       Asp Ser       Val       Lys       Val       Tyr         305       Thr       Ala Ser       Leu Tyr       Asp Ser       Val       Lys       Val       Tyr         305       Thr       Ala Ser       Ileu Tyr       Asp Ser       Val       Lys       Val       Tyr         305       Tyr       330       Tyr       Asp Ser       Val       Lys       Val       Tyr         345       Tyr       Asp Ser       Val       Lys       Leu Lys       Leu Lys       Lys       Lys       Lys       Lys       Lys       Lys       Lys       Lys       Lys	Ala	Leu	Tyr	Lys		Val	Val	Pro	Lys		Arg	Ser	Glu	Cys		Lys
Asn Lys Glu Lys Gly Ser Ser Ala Ser Leu Val Leu Lys Arg Leu Gly 300    Phe Lys Gly Val Trp Lys Gly Leu Phe Ala Arg Ile Ile Met Ile Gly 320    Thr Leu Thr Ala Leu Gln Trp Phe Ile Tyr Asp Ser Val Lys Val Tyr 335    Phe Arg Leu Pro Arg Pro Pro Pro Pro Glu Met Pro Glu Ser Leu Lys 340    Lys Lys Leu Gly Leu Thr Gln	Pro	Glu	Gln		Val	Val	Thr	Phe		Ala	Gly.	Tyr	Ile		Gly	Val
290 295 300  Phe Lys Gly Val Trp Lys Gly Leu Phe Ala Arg Ile Ile Met Ile Gly 320  Thr Leu Thr Ala Leu Gln Trp Phe Ile Tyr Asp Ser Val Lys Val Tyr 325  Phe Arg Leu Pro Arg Pro Pro Pro Pro Glu Met Pro Glu Ser Leu Lys 340  Lys Lys Leu Gly Leu Thr Gln	Phe	Cys		Ile	Val	Ser	His		Ala	Asp	Ser	Val		Ser	Val	Leu
305 310 315 320  Thr Leu Thr Ala Leu Gln Trp Phe Ile Tyr Asp Ser Val Lys Val Tyr 325  Phe Arg Leu Pro Arg Pro Pro Pro Pro Glu Met Pro Glu Ser Leu Lys 340 345  Lys Lys Leu Gly Leu Thr Gln	Asn		Glu	Lys	Gly	Ser		Ala	Ser	Leu	Val		Lys	Arg	Leu	Gly
Phe Arg Leu Pro Arg Pro Pro Pro Pro Glu Met Pro Glu Ser Leu Lys 340 335  Lys Lys Leu Gly Leu Thr Gln		Lys	Gly	Val	Trp		Gly	Leu	Phe	Ala		Ile	Ile	Met.	Ile	Gly 320
340 345 350  Lys Lys Leu Gly Leu Thr Gln	Thr	Leu	Thr	Ala		Gln	Trp	Phe	Ile		Asp	Ser	Val	Lys		Tyr
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His.	Cys	Ser	His	Gln.	Leu	Gly	Asp	Asn	Met	Trp	Phe	Leu	Thr	Thr	Let
			.20					25					30:	,	
Leu.	Leu	Trp	Val	Pro	Val	Asp.	Gly:	Gln	Val	Asp	Thr	Thr.	Lys.	Ala:	Val
		-35				-	40			_		45	_		
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Ile	Thr	Leu	Gln	Pra	Pro	Tro	Val-	Ser	Val	Phe	Gln	Glu	Glu-	Thr.	Val
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тър	Pne	Leu	ASN	-	Thr	Ara.	Thr	GIn.			THE.	PIO	ser		Arg
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тте.	Thr	ser		ser.	Val:	Asn:	Asp.		GTA.	GIU	туг	Arg.	_	GIN:	Arg
			100				•	105					110		
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Gly	Leu:		Gly	Arg	Ser.	Asp.		Ile	Gln.	Leu.	Glu		His.	Arg.	Gly
		115					120					125			
Trp	Leu	Leu	Leu	Gln.	Va:l	Ser	Ser	Arg	Val	Phe	Thr	Glu	Gly	Glu	Pro
	130					135					140				
Leu-	Ala	Leu	Arg	Cys	His	Ala	Trp	Lys	Asp	Lys	Leu	Val	Tyr	Asn	Val
145					150					155.					160
Leu	Tyr.	Tyr	Arq	Asn	Gly.	Lys	Ala.	Phe	Lys	Phe	Phe	His	Trp	Asn	Ser
		-	•	165	•	•			170				•	175	
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· as a	T.em	ጥከታ	Tle	T:eu	Lys	Thr	Agn	Tla	Ser	Hie	Δen	Glu	ጥhr-	<b>ጥ</b> ህ ተ	Hie
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- y =	JEI:	195	rie L	GIY	пÃэ.	.17.3	200	TÄT	4114	SEL	n_a	205	7.76	JCI	nad
		173					200					203			

Thr Val Lys Glu Leu Phe Pro Ala Pro Val Leu Asn Ala Ser Val Thr

	210					215					220				
Ser 225		Leu	Leu	Glu	Gly 230	Asn	Leu	Val	Thr	Leu 235		Cys	Glu	Thr	Lys 240
Leu	Leu	Leu	Gĺn	Arg 245	Pro	Gly	Leu	Gln	Leu 250		Phe	Ser	Phe	Tyr 255	Met
Gly	Ser	Lys	Thr 260	Leu	Arg	Gly	Arg	Asn 265	Thr	Ser	Ser	Glu	Tyr 270	Glņ	Ile
Leu	Thr	Ala 275	Arg.	Arg	Ģlu,	Asp	Ser 280	Gly	Leu	Tyr	Trp	Cys 285	Glu	Ala	Ala
Thr	Glu 290	Asp	Gly	Asn	Val	Leu 295	Lys	Arg	Ser	Pro	Glu 300	Leu	Glu	Leu	Ģln
Val 305	Leu	Gly	Leu	Gln	Leu 310	Pro	Thr	Pro	Val	Trp		His	Val	Leu	Phe 320
Tyr	Leu	Ala	Val	Gly 325		Met	Phe	Leu	Val 330	Asn	Thr	Val	Leu	Trp 335	Val
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Ser	Leu	Asp 355	Ser	Gly	His	Glu	Lys 360	Lys	Val	Ile	Ser	ser 365	Leu	Gln	Glu
Asp	Arg 370	His	Leu	Glu	Glu	Glu 375	Leu	Lys	Cys	Gln	Glu 380	Gln	Lys	Glu	Glu
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35 40 45  Glu Asp Gly Ile Met Asp Ala Ala Asn Phe Glu Gln Phe Leu Gln G 50 55 60  Arg Ile Lys Val Asn Gly Lys Ala Gly Asn Leu Gly Gly Gly Val V 65 70 75  Thr Ile Glu Arg Ser Lys Ser Lys Ile Thr Val Thr Ser Glu Val P 85 90 95  Phe Ser Lys Arg Tyr Leu Lys Tyr Leu Thr Lys Lys Tyr Leu Lys L 100 105 110  Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu S 115 120 125  Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu G 130 135 140  Asp Glu Asp 145 <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href="#"> <a href<="" td=""><td>Ala</td><td>Ala</td><td>Ala</td><td></td><td>Ala</td><td>Pro</td><td>Val</td><td>Lys</td><td></td><td>Leu</td><td>Val</td><td>Val</td><td>Lys</td><td>_</td><td>_</td><td>Lys</td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Ala	Ala	Ala		Ala	Pro	Val	Lys		Leu	Val	Val	Lys	_	_	Lys
Arg Ile Lys Val Asn Gly Lys Ala Gly Asn Leu Gly Gly Gly Val V 65	Lys	Lys	-	Gln	Val	Leu	Lys		Thr	Leu	Asp	Cys		His	Pro	Val
Arg Ile Lys Val Asn Gly Lys Ala Gly Asn Leu Gly Gly Gly Val V 65  70  75  Thr Ile Glu Arg Ser Lys Ser Lys Ile Thr. Val Thr Ser Glu Val P 90  Phe Ser Lys Arg Tyr Leu Lys Tyr Leu Thr Lys Lys Tyr Leu Lys L 100  Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu S 115  Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu Gl 130  Asp Glu Asp 145  Asp Glu Asp 145  Asp Glu Asp 165  Asp Glu Asp 176  Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 50		•		_	55					60				
Thr Ile Glu Arg Ser Lys Ser Lys Ile Thr Val Thr Ser Glu Val P  85  Phe Ser Lys Arg Tyr Leu Lys Tyr Leu Thr Lys Lys Tyr Leu Lys L  100  Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu S  115  Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu Gl  130  135  Asp Glu Asp  4210> 1130  4211> 91  4212> PRT  4213> Homo sapiens  4400> 1130  Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln T  1 5  Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala P  20  Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu M  35  Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leg	Arg	Ile		Val	Asn	Gly 70	Lys	Ala	Gly	Asn	Leu 75	Gly	Gly	Gly	Val	Val 80
Phe Ser Lys Arg Tyr Leu Lys Tyr Leu Thr Lys Lys Tyr Leu Lys L 100 105 110 110  Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu S 120 125  Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp 130 135 140  Asp Glu Asp 145 <pre> </pre> <a href="#"> <a< td=""><td>Thr</td><td>Ile</td><td>Glu</td><td></td><td>Ser</td><td></td><td></td><td></td><td></td><td>Thr.</td><td></td><td></td><td>-</td><td></td><td>Val</td><td></td></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Thr	Ile	Glu		Ser					Thr.			-		Val	
Asn Asn Leu Arg Asp Trp Leu Arg Val Val Ala Asn Ser Lys Glu S 115 120 125  Tyr Glu Leu Arg Tyr Phe Gln Ile Asn Gln Asp Glu Glu Glu Glu G 130 135 140  Asp Glu Asp 145 <a href="#">(&lt;210&gt; 1130</a> <a href="#">(&lt;211&gt; 91</a> <a href="#">(&lt;212&gt; PRT</a> <a href="#">(&lt;213&gt; Homo sapiens</a> <a href="#">(&lt;400&gt; 1130</a> Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln To 10 15  Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro 20 20 25 30  Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu Mand Ash Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Selu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Let Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr				Arg					Leu					Leu		
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Asp Glu Asp  145  <210> 1130  <211> 91 <212> PRT <213> Homo sapiens  <400> 1130  Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln T  1 5 10 15  Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala P  20 25 30  Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu M  35 40 45  Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Legal Company Company  50 50 50 50 50 50 50 50 50 50 50 50 50 5	 Tyr						Gln					Glu;				
<pre>&lt;210&gt; 1130 &lt;211&gt; 91 &lt;212&gt; PRT &lt;213&gt; Homo sapiens &lt;400&gt; 1130 Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln T</pre>		: Glu		÷	T.	.**		î.	-12		L.:		j1. v	. • • /	:	F
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<pre>&lt;213&gt; Homo sapiens &lt;400&gt; 1130 Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln T</pre>	<211	1> 9	l		•		-			: _	- <del>-</del>	, , , ,	•			
Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln To 10 15  Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro 20 25 30  Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu Marg Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leg Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Compa				apie	ens.	:			. :	en .	:					
20 25 30  Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Glu Mo 35 40 45  Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Le	\sn			Pro		Phe	Tyr	Gly	Ser		Leu	Pro	Cys	Pro		Thr
35 40 45 Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr L	Sln	Gln	Lys	_	Arg	Gly	Arg	Ile	-	Gly.	Leu	Ser	Arg		Ala	Pro
50 - 55 - 60	Leu	Pro		Cys	His	Thr	Arg		Glu	Phe:	Gl <u>u</u>	His:		Pro	Glu	Met
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Ser Leu Thr Leu Tyr Gly Leu Arg Gly Pro His Lys Ala Asp Ser Ile
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Gln Gly Thr Ala Arg Thr Leu Ser Pro Val Leu Glu Ser Pro Arg Asp
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Leu Gln Phe Ser Glu Ile Arg Glu Thr Ser Ala Lys Val Asn Trp Met
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Pro Pro Pro Ser Arg Ala Asp Ser Phe Lys Val Ser Tyr Gln Leu Ala
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							Thr 20.0.								
				ė											
							Trp								
	_	_					Ala		_						
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							Asp								
-			*	245				ş	25.0		2 T*	• *		255	
			-				Val	_	_		_	_			
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Thr	Ser	Pro 275	Ala	Ser	Ile	Thr	Phe 280	Thr	Thr	Gly	Leu	Glu 285	Ala	Pro	Arg
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Hiş	Gln	Leu	Leu 340	Gly	Leu.	Phe	Pro	Ser 345	Thr	Ser.	туг	Asn	Ala 350	Arg	Xaa
Gln	Ala	Met 355	Trp	Gly	Gln	Ser.	Leu 360	Leu	Pro	Pro	Val-	Ser. 365	Thr	Ser	Phe.
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Asn	Ser	Ser	Ser	Ser	Pro	Gln	Ara	Ara	Thr	Glu	Gln	Thr	Ala	Glu	Thr
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	G1	C	D	C	.1-		D	17:-		Trp	<b>~</b>	, -710	D	<b></b>	<b>~1</b> -
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										Phe					
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Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu	Gly
65					70.	:	٠.			7,5					- 80
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Lvs	Glu	Va 1	T.eu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Glv
			•	.0 3.					,,		-				_
	C	m		T	<b>61</b>	G1	<b>3</b>	*** 1		Gly	3	D	<b>61</b> -	T1-	T1-
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Gly	Tyr									Pro			Ala	Tyr	Ser
		115	-		-	٠	120	٠.				125			
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Gly	Arg	Glu	Ile	Ile	Tyr	Pro	Asn	Ala	Ser	Leu	Leu	Ile	Gln	Asn	Ile
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T.011	Va 1	Δen	Glu	Glu	Δla	Thr	G1v	Gln	Phe	Arg	Va 1	ጥህታ	Pro	Glu	Len
Deu	V41	N3II	مبرم		ALG		GLY			-		_			
				165					170			-		175	
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Pro	Lys	Pro	Ser	Ile	Xaa	Ser				Lys				Asp	Lys
	- '		180	. 1				185		*		N. **	190	•	•
Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr
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_				_	_	~ .					<b>a</b>		•	<b>T</b>	<b>61</b> -

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Ala Glu Thr Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu His Val
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Pro Trp Lys Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn
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		275					280				туг	285			
	290					295					Pro 300				
305					310					315	Thr				320
				325					330		Tyr			335	
3 1 25	abn	SHT	ASD.	1.11.11	1 1 V	1.011	ACD	ATO	11.17.17	11' IN Y	vai	1170 7	יין חיוי	110	ייי חיווי

			340					345					350		
Val	Tyr	Ala 355		Pro	Pro	Lys	Pro 360		Ile	Thr	Ser	Asn 365		Ser	Ası
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Gln 385	Asn	Thr	Thr	Týr	Leu 390	Trp	Trp	Vaļ	Asn	Asn 395		Ser	Leu	Pro	Va:
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Gļu	Leu	Ser 435	Val	Asp	His	Ser	Asp 440	Pro	Val	Ile	Leu	Asn 445		Leu	Туг
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Gln Ala Leu Ile Glu Pro Gly

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Ile				Gln			Arg 120						Thr	Pro	Tyr
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150

Ala Thr Ser Gly Met Pro 165

and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th <210> 1137 <211> 79 <212> PRT 10 10 10 feb 1 do 1 0 12 To 0 170 14 p 0 43 60 To 0 80 <213> Homo sapiens <400>.1137: The Transport of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con Thr Asn Asn Lys Ser Leu Val Gln Leu Lys His Ile Ser Asn Asp Phe 1 5 10 Jan - 12 11 11 12 12 12 11 12 12 13 14 15 15 16 17 17 17 Ser Lys Phe Lys Val Asp His Asp Arg Ile Ile Lys Asp Arg Lys Asp 25 Leu Ser Asn Leu Val Met Thr Ile Ile Ser Ile Phe Ala Glu Leu Lys 35 40 45 . The first step Will Mills than a self-than also at the ending teach that it is a Ile Phe Asn Phe Ile Asn Met Leu Leu Gln Leu Pro Asp Leu Lys Lys 50 55 60 and a substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitutio Lys Ser Phe Pro His Ser Gln Leu Lys Val Arg Thr Leu His Phe 70 2 A September 1988 And Add Application of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Co <211> 397 <212> PRT <213> Homo sapiens Pro Thr Arg Pro Ser Ser Val Ser Arg Arg Asp Lys Ser Lys Gln Val 5 . 10 Trp Glu Ala Val Leu Leu Pro Leu Ser Leu Leu Ser Met Met Asp Leu Arg Asn Thr Pro Ala Lys Ser Leu Asp Lys Phe Ile Glu Asp Tyr Leu Leu Pro Asp Thr Cys Phe Arg Met Gln Ile Asn His Ala Ile Asp Ile 50 55 Ile Cys Gly Phe Leu Lys Glu Arg Cys Phe Arg Gly Ser Ser Tyr Pro Val Cys Val Ser Lys Val Val Lys Gly Gly Ser Ser Gly Lys Gly Thr 85 90

Thr	Leu	Arg	Gly 100		Ser	Asp	Ala	105		val	. Val	. Phe	Leu 110		Pro
Leu	Thr	Thr 115		Gln	Asp	Gln	Leu 120		Arg	Arg	Gly	Glu 125		: Ile	Gļi
Glu	Ile 130		Arg	Gln	Leu	Glu 135	Ala	Cys	Gln	Arg	Glu 140		Ala	Phe	Se:
Val 145	Lys	Phe	Glu	Val	Gln 150	Ala	Pro	Arg	Trp	Gly 155		Pro	Arg	Äla	Le:
Ser	Phe	Val	Leu	Ser 165	Ser	Leu	Gln	Leu	Gly 170		Gly	Val	Glu	Phe 175	_
Val	Leu	Pro	Ala 180	Phe	Asp	Ala	Leu	Asp 185		Ala	Arg	Thr	Gly 190		Leu
Thr	Gly	Gly 195	Tyr	Lys	Pro	Asn	Pro 200	Gln	Ile	Tyr	Val	Lys 205	Leu	Ile	Glu
Glu	Cys 210	Thr	Asp	Leu	Gln	Lys 215	Glu	Gly	Glu	Phe	Ser 220	Thr	Суѕ	Phe	Thr
225					230		Lys	٠		235					: 240
				245			Trp		250					255	7
			260				Ala	265					270		
		275					Thr 280					285			
	290					295	Ile		_		300				-
305			•		310		Lys			315					320
				325			Arg		330					335	
			340			•	Gly	3,45		٠			350		
Ala	Gln	Glu 355	Ala	Glu	Ala		Leu 360	Asn	Tyr	Pro		Phe	Lys	Asn	Trp

Asp	Gly 370		Pro	Val	Ser	Ser 375		Ile	Leu		Val 380		Pro	Pro	Ala
Ser	Ser	Leu	Pro	Phe	Ile	Pro	Ala	Pro	Leu	His	Glu	Ala			
385					390	-	-		- '	395		-		•••	
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<21	0> 1	139									<b>30</b>				
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	2> P			٠.			2 - 2							• :	٠.
<21	3> H	omo	sapi	ens							į		•		
<40	0> 1	139.	31.5				٠.								
	_									Arg				Ala	Thr
1				5			_		10					15	
	.* :				ė					٠.					
Ala	Leu	Ala		Gly	Ala	Val	Met		Glu	Leu	Ile	Leu	Ser	Pro	Ala
			20					25		-		٠	30		``.
Thr	Ala	Pró	Hig	Pro	Len	T.ve	Met	Phe		Cys	Ser	T.ve:			
		35			204	2,5	40	10		Cys	001	45	2110	vai	Jer
	*							٠.			- :		:	7	
Thr	Pro	Ser	Leu	Val	Lys	Ser	Thr	Ser	Gln	Leu	Leu	Ser	Arg	Pro	Leu
	50					55					60			•	
			, :											:	-
Ser `65	Ala	Val	Val	Leu		Arg	Pro	Glu	Ile	Leu	Thr	Asp	Glu	Ser	
					70		٠,			75	٠	. : * * * *			80
Ser	Ser	Leu	Ala	Val	Ser	Cys	Pro	Leu	Thr	Ser					•
				85		•			90					95	
				-					-				. •	• •	
Ser	Phe	Gln		Ser	Ala	Ile	Ser		Asp	Ile	Asp	Thr	Ala	Ala	Lys
			100					105					110		
Phe	Tle	Glv	Δ1a	Glv	Δla	Δla	Thr	Va 1	Glw	Val	Ala	Glu	Ser	Glu	Δ1=
		115		UL,			120		<b>-1</b>	vul		125	JCI	O1,	A.Lu
									-		٠.		٠.		
Gly	Ile	Gly	Thr	Val	Phe	Gly	Ser	Leu	Ile	Ile	Gly	Tyr	Ala	Arg	Asn
	130										140				
		_	-:	·		200			_ ·			_			
145	ser	Leu	Lys	GIN		Leu	Phe	Ser	Tyr	Ala	Ile	Leu	Gly	Phe	
143					150	- ,	-			155					160
Leu	Ser	Glu	Ala	Met	Glv	Leu	Phe	Cys	Leu	Met	Val	Ala	Phe	Leu	Ile
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				•											
Leu	Phe	Ala													
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Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
His Arg Cys Ala Asp Phe Gly Met Ala Ala Asp Lys Asn Lys Phe Pro
                             40
Gly Asp Ser Val Val Thr Gly Arg Gly Arg Ile Asn Gly Arg Leu Val
Tyr Val Phe Ser Gln Asp Phe Thr Val Phe Gly Gly Ser Leu Ser Gly
                    70
Ala His Ala Gln Lys Ile Cys: Lys Ile Met Asp Gln Ala Ile Thr Val
                 85
Gly Ala Pro Val Ile Gly Leu Asn Asp Ser Gly Gly Ala Arg Ile Gln
Glu Gly Val Glu Ser Leu Ala Gly Tyr Ala Asp Ile Phe Leu Arg Asn
        115
Val Thr Ala Ser Gly Val Ile Pro Gln Ile Ser Leu Ile Met Gly Pro
                        135
Cys Ala Gly Gly Ala Val Tyr Ser Pro Ala Leu Thr Asp Phe Thr Phe
                    150
                                        155
Met Val Lys Asp Thr Ser Tyr Leu Phe Ile Thr Gly Pro Asp Val Val
                165
Lys Ser Val Thr Asn Glu Asp Val Thr Gln Glu Glu Leu Gly Gly Ala
                                185
Lys Thr His Thr Thr Met Ser Gly Val Ala His Arg Ala Phe Glu Asn
        195
                            200
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Asp	Val 210		Ala	Leu	Cys	Asn 215		Arg	Asp	Phe	220		туг	Leu	Pro
Leu 225		Ser	Gln	Asp	Pro 230	Ala	Pro	Val	Arg	Glu 235	_	His	Asp	Pro	Ser 240
Asp	Arg	Leu	Val	Pro 245	Glu	Leu	Asp	Thr	Ile 250		Pro	Leu	Glu	Ser 255	
Lys	Ala	Tyr	Asn 260		Val	_	Ile						Asp 270		Arg
Glu	Phe	Phe 275			Met			-		_				Val	Gly
					Gly				_		Val	_		Gln	Pro
Lys 305	Val	Ala	Ser	Gly	Cys 310		Asp					Val	Lys	Gly	Ala 320
Arg		Val	Arg	Phe 325	Cys	Asp	Ala	Phe	Asn 330	Ile	Pro	Leu	Ile	Thr 335	
Val	Asp	Val	Pro 340	Gly	Phe	Leu		_	Thr		Gln	Glu	Туг 350	Gly	Gly
Ile	Ile	Arg 355	His		Ala					Ala		Ala 365	Glu	Ala	Thr
Val	Pro 370	Lys	Val	Thr	Val	Ile 375			-	Ala	Туг 380	Gly	Gly	Ala	Tyr
Asp 385	Val		Ser		Lys 390		Leu		Gly	Asp 395	Thr	Asn	Tyr	Ala	
Pro	Thr	Ala	Glu	Ile 405	Ala	Val	Met	Gly	Ala 410	Lys	Gly	Ala	Val	Glu 415	Ile
Ile	Phe	Lys	Gly 420		Glu	Asn	Val	Glu 425	Ala	Ala	Gln	Ala	Glu 430	Tyr	Ile
Glu	Lys	Phe 435	Ala	Asn	Pro		Pro 440	Ala	Ala	Val	Arg	Gly 445	Phe	Val	Asp
Asp	Ile 450				Ser		Thr		Ala		Ile 460		Суз	Asp	Leu
Asp 465	Val	Leu	Ala		Lys 470	Lys	Val	Gln		Pro 475	Trp	Arg	Lys		Ala 480

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Asn Ile Pro Leu
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<210> 1141
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<222> (2)
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<220>
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Leu Xaa Glu Leu Glu Arg Tyr Val Thr Ser Cys Leu Arg Lys Lys Arg
Lys Pro Gln Ala Glu Lys Val Asp Val Ile Ala Gly Ser Ser Lys Met
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                                25
                                                     30
Lys Gly Phe Ser Ser Ser Glu Ser Glu Ser Ser Glu Ser Ser
Ser Asp Ser Glu Xaa Xaa Glu Thr Gly Pro Ala
     50
                         55
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<212> PRT
<213> Homo sapiens
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Ser Gly Tyr Lys Thr Ile Ser Ala Met Gln Thr Ile Lys Cys Val Val

Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu Leu Ile Ser Tyr Thr

10

5

<400> 1142

			20					25					30		
Thr	Asn	Lys 35	Phe	Pro	Ser	Glu	Tyr 40	Val	Pro	Thr	Val	Phe 45	Asp	Asn	Tyr
Ala	Val 50	Thr	Val	Met	: Ile	Gly 55	 Gly	Glu	Pro	Туr	Thr	Leu	Gly	Leu	Phe
Asp 65	Thr	Ala	Gly	Gln	Glu 70	Asp	Tyr	Asp	Arg	Leu 75	Arg	Pro	Leu	Ser	туг 80
Pro	Gln	Thr	Asp	Val 85	Phe	Leu	Val	Cys	Phe 90	Ser	Val	Val	Ser	Pro 95	Ser
Ser	Phe	Glu	Asn 100	Val	Lys	Glu	Lys	Trp 105	Val	Pro	Glu	Ile	Thr 110	His	His
Cys	Pro-	Lys 115	Thr	Pro	Phe	Leu	Leu 120	Val	Gly	Thr	Gln	Ile 125	Asp	Leu	Arg
Asp	Asp 130		Ser				Lys	Leu	Ala	Lys	Asn 140	Lys	Gln	Lys	Pro
Ile 145	Thr	Pro	Glu 	Thr	Ala 150	Glu	Lys	Leu	Ala	Arg 155	Asp	Leu	Lys	Ala	Val 160
Lys	Tyr	Val	Glu 		Ser	Ala	Leu	Thr	Gln 170		Gly		Lys	Asn 175	Val
Phe	Asp	Glu	Ala 180	Ile			Ala		Glu	Pro	Pro	Glu	Pro 190	Lys	Lys
Ser	Arg	Arg 195	Суѕ	Val	Leu	Leu									
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	.> 17														
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<213	> Hc	omo s	apie	ens										*	
<400	> 11	43													
Gly	Asp	Leu	Asp	Cys	Pro	Asp	Trp	Val	Leu	Ala	Glu	Ile	Ser	Thr	Leu
- 1				5					10					15	

Ala Lys Met Tyr Glu Lys Ile Leu Lys Leu Thr Ala Asp Ala Lys Phe

Glu Ser Gly Asp Val Lys Ala Thr Val Ala Val Leu Ser Phe Ile Leu

20 25

	50				•	.55	Val				60				
Leu 65	Gln	Gln	Leu	Gly	Leu 70	Pro	Lys	Glu	His	Ala 75	Ala	Ser	Leu	Cys	Arg 80
Суѕ	Tyr	Glu	Glu	Lys 85	Gln	Ser	Pro	Leu	Gln 90	Lys	His	Leu	Arg	Val 95	Cys
Ser	Leu	Arg	Met 100	Asn	Arg	Leu	Ala				Trp			Asp	_
Thr 	Leu	Ser 115	Ser	Ser	Leu	Leu	Gln 120		Val	Glu :	Glu	Pro 125		Val	His
Leu	Arg 130	Leu	Glu	Val		Ala 135	Ala	Pro				Ala		Pro	Val
Ala 145	Met	Ser	Leu	Ser	Ala 150	Asp	Lys	Phe	Gln	Val 155	Leu	Leu	Ala		Leu 160
Lys	Gln	Ala	Gln	Thr 165		Met	Ser	Ser	Leu 170	Gly			. * * * *		
<210												,		* .	
<211 <212															
<212> PRT <213> Homo sapiens															
<220			-												
<221 <222												•			
			uals	any	of	the	natu	rall	у ос	curr	ing	L-am	ino	acid	s
<220															
<221															
<222 <223	•	•	nale	2017	of	+ha	natu	11		a		T 2m			_
<220		u cy	uais	any	OI	cne	nacu	rall	у ос	curr	ing	L-am	ino	acio	S
<221		TE													
<222	> (4	0) .									٠.				
			uals	any	of	the	natu	rall	y oc	curr	ing	L-am	ino	acid:	s ,
<400> 1144 Gln Trp Arg Gln Gly Val Gln Gly Arg Ser Ala Ser Gly Thr Ser Thr															
I I	rrp .	AIG	etu (	Gly 5	val	GIN	GLY .	arg :	Ser i	Ala :	ser (	GΤΆ ,	Thr :	Ser 1	Thr

Cys	Arg	Val	Ala 20		Xaa	Gly	Gln	Asp 25		Pro	Ala	Ala	Ser 30		Gl
Val	Asn	Leu 35		Asn	Xaa	Phe	Xaa 40		Pro	Leu	Leu	Leu 45		Pro	Va:
Pro	Thr 50		Val	Ala	Pro	Ser 55	Leu			Pro			Leu	Ser	Hi
Pro 65			Gln		Gly 70		Val	Thr		Gly 75		Gly	Glu	Gly	Hi:
Arg	Cys	Ala	Ser				Val					Glu	Leu	Val 95	Thi
Arg	Pro				Pro		Ala			Gln		Ala	Ala 110		Ala
	Gly						Ala 120		Pro			Pro 125		туг	Lys
Ile					Met	_	Ala	_		Gln			Ala	Thr	Ala
Lys 145		Gly	Lys		Gln 150				٠.			'. <del>-</del> -			-
<213 <213	0> 11 L> 70 2> PF	) RT										-			
	з> но )> 11		sapie	ens							٠	•			
			Ala	Gly 5	Val	Leu	Ala	Ile	Arg 10	Pro	Asp	Glu	Leu	Arg 15	Phe
Arg	Tyr	Ser	Met 20	Val		Tyr	Trp	Arg 25	Gln	Ala	Gly	Leu	Ser 30	Tyr	Ile
Arg	Tyr	Ser 35	Gln	Ile	Cys	Ala	Lys 40	Ala	Val	Arg	Asp	Ala 45	Leu	Lys	Thr
Glu	Phe 50	Lys	Ala	Asn	Ala	Glu 55	Lys	Thr	Ser	Gly	Ser 60	Asn	Val	Lys	Ile
Val 65	Lys	Val	Lys	Lys	Glu 70				•						

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<210> 1146
<211> 166
<212> PRT
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Leu Leu Gly Met Glu Gly Ser Val Lys Leu Thr Asp Phe Gly Phe Cys
      20 . 25
                                              30
Ala Gln Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr
                          40
Pro Tyr Trp Met Ala Pro Glu Xaa Val Thr Arg Lys Ala Tyr Gly Pro
                     55
Lys Val Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Val Glu
Gly Glu Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu
                                90
Ile Ala Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser
       100
Pro Ile Phe Arg Asp Phe Leu Asn Arg Cys Leu Glu Met Asp Val Glu
                        120
Lys Arg Gly Ser Ala Lys Glu Leu Leu Gln His Pro Phe Leu Lys Leu
 130 135 140
Ala Lys Pro Leu Ser Ser Leu Thr Pro Leu Ile Met Ala Ala Lys Glu
145 150
                           155
                                                   160
Ala Met Lys Ser Asn Arg
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<210> 1147
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<211> 420 <212> PRT

<213> Homo sapiens

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<22	1> S	ITE						*							
<22	2> (	203)													
<22	3> X	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds ·
<40	0> 1	147													
Cys	Pro	Pro	Phe	Ser	Val	Arg	Val	Pro	Pro	Trp	Ala	Gly	Leu	Ala	Leu
: 1														15	
Leu	Pro	Ser	Pro	Ser	Leu	Met	Ala	Leu	Leu	Arq	Arq	Pro	Thr	Val	Ser
			- 20							_		-	30		
	•														
Ser	Asp	Leu	Glu	Asn	Ile	Asp	Thr	Gly	Val	Asn	Ser	Lys	Val	Lys	Ser
	_		1									45			
His	Val	Thr	Ile	Arg	Arg	Thr	Val	Leu	Glu	Glu	Ile	Gly	Asn	Arg	Val
	. 50					. 55		·, :			60	٠.			
Thr	Thr	Arg	Ala	Ala	Gln	Val	Ala	Lys	Lys	Ala	Gln	Asn	Thr	Lys	Val
65		• .			70					.75					80
Pro	Val	Gln	Pro	Thr	Lys	Thr	Thr	Asn	Val	Asn	Lys	Gln	Leu	Lys	Pro
			•	. 85					. 90			•		95	:
			8												
Thr	Ala	Ser	Val	Lys						Lys	Leu	Ala		Lys	Gly
			100					105	-				110		
		•										_			
Pro	Ser		Thr	Pro	Glu	Asp		Ser	Met	Lys	Glu		Asn	Leu	Cys
		115					120					125			
			_			_			_		~ 1	•	-1-		
Gln		Phe	Ser	Asp	Ala		Leu	Cys	Lys	ITe		Asp	11e	Asp	Asn
	130					135					140				
C1	200	<b></b>	Glu-		Dwa	C1 n	7 0	Cua	60=	A c.m	T11 -	1751	Tuc	) en	Tla
	Asp	Trp.	GIU	ASI	150	GIN	Leu	cys	ser	155	TYL	vai	гåг	АЗЪ	160
145					150					133					100
Tree-	Gl n	Tur	Leu	A = 0	G1n	LAU	Glin	t/a l	Len	Gln	Ser	Tle	Asn	Pro	Hic
TYL	GIII	. <b> y .</b>	Dea	165	GIII	Dea	GIU	Vai	170	0111	001	110		175	
				105					1,0				•	1,5	
Phe	T.eu	Asp	Gly	Ara	Agn	Tle	Asn	Glv	Arσ	Met	Ara	Ala	Ile	Leu	Val
			180	•••				185	9		9		190		
			100					103							
Asp	Trp	Leu	Val	Gln	Val	His	Ser	Lvs	Phe	Xaa	Leu	Leu	Gln	Glu	Thr
		195					200	-1-				205			
Leu	Tyr	Met	Cys	Val	Glv	Ile	Met	Asp	Arq	Phe	Leu	Gln	Val	Gln	Pro
	210		• -		- 4	215		-	_		220			•	
Val	Ser	Arg	Lys	Lys	Leu	Gln	Leu	Va:1	Gly	Ile	Thr	Ala	Leu	Leu	Leu
225				_	230					235					240

Ala Ser Lys Tyr Glu Glu Met Phe Ser Pro Asn Ile Glu Asp Phe Val 250 Tyr Ile Thr Asp Asn Ala Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu 265 260 Thr Leu Ile Leu Lys Glu Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro 280 285. Leu His Phe Leu Arg Arg Ala Ser Lys Ala Gly Glu Val Asp Val Glu 295 Gln His Thr Leu Ala Lys Tyr Leu Met Glu Leu Thr Leu Ile Asp Tyr 310 Asp Met Val His Tyr His Pro Ser Lys Val Ala Ala Ala Ala Ser Cys 325 330 Leu Ser Gln Lys Val Leu Gly Gln Gly Lys Trp Asn Leu Lys Gln Gln 340 345 Tyr Tyr Thr Gly Tyr Thr Glu Asn Glu Val Leu Glu Val Met Gln His 360 Met Ala Lys Asn Val Val Lys Val Asn Glu Asn Leu Thr Lys Phe Ile-3.7.5 Ala Ile Lys Asn Lys Tyr Ala Ser Ser Lys Leu Leu Lys Ile Ser Met 385 390 Ile Pro Gln Leu Asn Ser Lys Ala Val Lys Asp Leu Ala Ser Pro Leu 410 Ile Gly Arg Ser 420

<210> 1148

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148

Gln Ser Asn Ala Val Trp Leu Leu Gly His Leu His Leu Ser Thr Leu

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Ser	Ser	Ser	Gln 20	Ser	Arg	Ala	Ser	Val 25	Pro	Thr	Asp	туг	Ser 30	туг	Leu
Pro	Glu	Ser 35	Ser	Phe	Ile	Gly	Ala 40	Ala	Ile	Gly	Phe	Phe 45	Ile	Thr	Gly
Gly	Lys 50	Lys	Gly	Pro	Glu	55	Val		Pro	Ser	Leu 60	Leu	Lys	Val	Val
Met 65	Lys	Pro	Ile	Ala	Thr 70		•		Ser	Tyr 75	Gln	Tyr	Pro	Pro	Val 80
Asn	Trp	Ala	Ala	Leu 85	Leu	Ser	Pro	Leu	Met 90	Arg	Leu		Phe	Gly 95	Glu
Glu	Ile	Gln	Gln 100	Leu	Cys	Leu	Glu	Ile 105	Met	Val	Thṛ	Gln	Ala 110	Gln	Ser
Ser	Gln	Asn 115	Ala	Ala	Ala	Leu	Leu 120	Gly	Leu	Trp	Val	Thr 125	Pro	Pro	Leu
Ile	His 130	Ser	Leu	Ser	Leu	Asn 135	Thr	Lys	:Arg	Tyr	Leu 140	Leu	Ile	Ser	Ala
Pro 145	Leu	Trp	Ile	Lys	His 150	Ile	Ser	Asp	Glu	Gln 155	Ile	Leu	Gly	Phe	Val 160
Glu	Asn	Leu	Met	Val 165	Ala	Val	Phe	Lys	Ala 170	Ala	Ser	Pro	Leu	Gly 175	
Pro	Glu	Leu	Cys 180	Pro	Ser	Ala	Leu	His 185	Gly	Leu	Ser	Gln	Ala 190	Met	Lys .
Leu	Pro	Ser 195	Pro	Ala	His	His	Leu 200	Trp	Ser	Leu	Leu	Ser 205	Glu	Ala	Thr
Gly	Lys 210	Ile		Asp		Leu 215	Pro	Asn	Lys	Ile	Arg 220	Arg	Lys	Asp	Leu
Glu 225	Leu	Tyr	Ile	Ser	Ile 230	Ala	Lys	Cys	Leu	Leu 235	Glu	Met	Thr	Asp	Asp 240
Asp	Ala	Asn	Xaa	Asp 245	Arg	Pro	Gly	Tyr							٠

<210> 1149 <211> 239 <212> PRT <213> Homo sapiens

<400> 1149

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr 1 5 10 15

Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu
20 25 30

Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu 35 40 45

His Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu
50 55 60

Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr
65 70 75 80

Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp 85 90 95

Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile 100 105 110

Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
115 120 125

Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly 130 135 140

Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg 145 150 155 160

Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val
165 170 175

Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys 180 185 190

Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Ala Leu Leu Gly
195 200 205

Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser 210 215 220

Lys Lys Lys Leu Lys Glu Glu Lys Arg Asn Lys Ser Lys Lys Lys 235

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<210> 1150
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<223> Xaa equals any of the naturally occurring L-amino acids
Ala Glu Xaa Gly Lys Thr Glu Trp Leu Phe Gly Met Asp Glu Gly Arg
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Lys Gln Leu Ala Ala Ser Ala Gly Phe Arg Arg Leu Ile Thr Val Ala
           20
                              25
Leu His Arg Gly Gln Gln Tyr Glu Ser Met Asp His Ile Gln Ala Glu
             40
Leu Ser Ala Arg Val Met Glu Leu Ala Pro Ala Gly Met Pro Thr Gln
Gln Gln Val Pro Phe Leu Ser Val Gly Gly Asp Ile Gly Val Arg Thr
Val Gln His Gln Asp Cys Ser Pro Leu Ser Gly Asp Tyr Val Ile Glu
            - 85
Asp Val Gln Gly Asp Asp Lys Arg Tyr Phe Arg Arg Leu Ile Phe Leu
          100 ... 105
Ser Asn Arg Asn Val Val Gln Ser Glu Ala Arg Leu Leu Lys Asp Val
     115 120
Ser His Lys Ala Gln Lys Lys Arg Lys Lys Asp Arg Lys Lys Gln Arg
                      135
Pro Ala Asp Ala Glu Asp Leu Pro Ala Ala Pro Gly Gln Ser Ile Asp
                  150 155
Lys Ser Tyr Leu Cys Cys Glu His His Lys Ala Met Ile Ala Gly Leu
                                 170
              165
Ala Leu Leu Arg Asn Pro Glu Leu Leu Glu Ile Pro Leu Ala Leu
                              185
Leu Val Val Gly Leu Gly Gly Gly Ser Leu Pro Leu Phe Val His Asp
His Phe Pro Lys Ser Cys Ile Asp Ala Val Glu Ile Asp Pro Ser Met
```

	210					215					220				
Leu 225	Glu	Val	Ala	Thr	Gln 230	Trp	Phe	Gly	Phe	Ser 235	Gln	Ser	Asp	Arg	Met 240
Lys	Val	His	Ile	Ala 245	Asp	Gly	Leu	Asp	Туг 250	Ile	Ala	Ser	Leu	Ala 255	Gly
Gly	Gly	Glu	Ala 260	Arg	Pro	Cys	Tyr	Asp 265	Val	Ile	Met	Phe	Asp 270	Val	Asp
Ser	Lys	Asp 275	Pro	Thr	Leu	Gly	Met 280	Ser	Cys	Pro	Pro	Pro 285	Ala	Phe	Val
Glu	Gln 290	Ser	Phe	Leu	Gln ⁻	Lys 295	Val	Lys	Ser	Ile	Leu 300	Thr	Pro	Glu	Gly
Val 305	Phe	Ile	Leu	Asn	10 310	Val	Cys	Arg	Asp	Leu 315	Gly	Leu	Lys	Asp	Ser 320
Val	Leu	Ala	Gly	Leu 325	Lys:	Ala	Väl	Phe	Pro 330	Leu	Leu	Tyr	Val	Arg 335	Arg
Ile	Glu	Gly	Glu 340	Val	Asn	Glu	Ile	Leu 345	Phe	Cys	Gln	Leu	His	Pro	Glu
Gln	Lys	Leu 355	Ala	Thr	Pro	Glu	Leu 360	Leu	Glu	Thr	Ala	Gln 365	Ala	Leu	Glu
Arg	Thr 370	Leu	Arg	Lys	Pro	Gly 375	Arg	Gly	Trp	Asp	Asp 380	Thr	Tyr	Val	Leu
Ser 385	Asp	Met	Leu	Lys	Thr 390	Val	Lys	Ile	Val						
		8 -		٠.							•				
<210	)> 11	.51											٠.		
<211 <212															
<213			apie	ns											
<400	> 11	51													
Val 1	Asn	Val	Asn	Asn 5	Pro	Ser	Leu	Cys	His 10	Ser	Ser	His	Leu	Val 15	Asp
Leu	Gly	Ser	Gly 20	Ser	Val	Glu	Phe	Cys . 25	Ala	Trp	Glu	Trp	Ser 30	Trp	Arg
Glu	Trp	Gly	Leu	Cys	Thr	Ala	Ala	Thr	Ser	Pro	Arg	Ser	Ser	His	Leu

Pro Ala Pro Arg Pro Gly Cys Met Ala Ala Pro Val Cys Val Gln Arg Ser Val Ser His Pro Leu His Leu Leu Ser Gly Gly Leu Gly Ser Pro 70 Thr Cys Cys Gln Asp Leu Gly Ala Ile Lys Tyr Ser Gly Phe Val Lys 100 105 <210> 1152 <211> 172 <212> PRT <213> Homo sapiens Leu Gly Asp Thr Ile Glu Gly Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala Arg Gly Ala Asp Arg Met Gly Lys Cys Arg Gly Leu Arg Thr Ala Arg Lys Leu Arg Ser His Arg Arg Asp Gln Lys Trp His Asp Lys Gln Tyr Lys Lys Ala His Leu Gly Thr Ala Leu Lys Ala Asn Pro Phe Gly Gly Ala Ser His Ala Lys Gly Ile Val Leu Glu Lys Val Gly Val Glu Ala Lys Gln Pro Asn Ser Ala Ile Arg Lys Cys Val Arg Val Gln Leu Ile Lys Asn Gly Lys Lys Ile Thr Ala 105 Phe Val Pro Asn Asp Gly Cys Leu Asn Phe Ile Glu Glu Asn Asp Glu 120 Val Leu Val Ala Gly Phe Gly Arg Lys Gly His Ala Val Gly Asp Ile

Pro Gly Val Arg Phe Lys Val Val Lys Val Ala Asn Val Ser Leu Leu

150

155

160

Ala Leu Tyr Lys Gly Lys Lys Glu Arg Pro Arg Ser 165 170

<210> 1153

<211> 197

<212> PRT

<213> Homo sapiens

<400> 1153

Tyr Trp Cys Glu Gln Cys Asp Val Gln Phe Ser Ser Ser Ser Glu Leu

1 5 10 15

Tyr Leu His Phe Gln Glu His Ser Cys Asp Glu Gln Tyr Leu Cys Gln
20 25 30

Phe Cys Glu His Glu Thr Asn Asp Pro Glu Asp Leu His Ser His Val 35 40 45

Val Asn Glu His Ala Cys Lys Leu Ile Glu Leu Ser Asp Lys Tyr Asn 50 55 60

Asn Gly Glu His Gly Gln Tyr Ser Leu Leu Ser Lys Ile Thr Phe Asp 65 70 75 80

Lys Cys Lys Asn Phe Phe Val Cys Gln Val Cys Gly Phe Arg Ser Arg 85 90 95

Leu His Thr Asn Val Asn Arg His Val Ala Ile Glu His Thr Lys Ile 100 105 110

Phe Pro His Val Cys Asp Asp Cys Gly Lys Gly Phe Ser Ser Met Leu 115 120 125

Glu Tyr Cys Lys His Leu Asn Ser His Leu Ser Glu Gly Ile Tyr Leu 130 135 140

Cys Gln Tyr Cys Glu Tyr Ser Thr Gly Gln Ile Glu Asp Leu Lys Ile 145 150 155 160

His Leu Asp Phe Lys His Ser Ala Asp Leu Pro His Lys Cys Ser Asp 165 170 175

Cys Leu Met Arg Phe Gly Asn Glu Arg Glu Leu Ile Ser His Leu Pro 180 185 190

Val His Glu Thr Thr 195 <210> 1154

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<400> 1154
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20 25
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Val Ala Leu Lys Arg Val Pro Ser Pro Thr Pro Ala Pro Lys Glu Ala
               55
Val Arg Glu Gly Arg Pro Pro Glu Pro Thr Pro Ala Lys Arg Lys Arg
65
             70
                          75
90
100 105 110
Ser Ser Ser Ser Ser Ser Ser Ser Ser Pro Ser Pro Ala Lys
    115
                 120
Pro Gly Pro Gln Ala Cys Pro Asn Leu Gln Ala Pro Arg Ser His Pro
        135
Leu Ala Ser Gly Gly Pro Ala Ala Pro Gly Ser Gln
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<210> 1155
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<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> <221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
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His Gln His Gln Thr Arg Pro His Arg Val Pro Gly Thr Met Phe Gly
                               25
Lys Arg Lys Lys Arg Val Glu Ile Ser Ala Pro Ser Asn Phe Glu His
        35
                            40
Arg Val His Thr Gly Phe Asp Gln His Glu Gln Lys Phe Thr Gly Leu
Pro Arg Gln Trp Gln Ser Leu Ile Xaa Glu Ser Ala Arg Arg Pro Lys
Pro Leu Val Asp Pro Ala Cys Ile Thr Ser Ile Gln Pro Gly Ala Pro
                85
Lys Thr Ile Val Arg Gly Ser Lys Xaa Ala Lys Asp Gly Ala Leu Thr
                       · 105
                in the first of the contract of
Leu Leu Leu Asp Glu Phe Glu Asn Met Xaa Val Thr Arg
                 120 125
<210> 1156
<211> 202
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<400> 1156
Arg Pro Thr Arg Pro Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln
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Ala Leu Leu Asp Gly Arg Gly Leu Cys Val Asn Ala Ser Ala Val Ser
Arg Leu Arg Ala Tyr Leu Leu Pro Ala Pro Pro Ala Pro Gly Asn Ala
    . 35
                           40
                                             45
```

Ser Glu Ser Glu Glu Asp Arg Ser Ala Gly Ser Val Glu Ser Pro Ser

	50					55					60				
Val 65	Ser	Ser	Thr	His	Arg 70	Val	Ser	Asp	Pro	Lys 75	Phe	His	Pro	Leu	His 80
Ser	Lys	Ile	Ile	Ile 85	Ile	Lys	Lys	Gly	His 90	Ala	Lys	Asp	Ser	Gln . 95	Arg
Туr	Lys	Val	Asp 100	Tyr	Glu	Ser	Gln	Ser 105	Thr	Asp	Thr	Gln	Asn 110	Phe	Ser
Ser	Glu	Ser 115	Lys	Arg	Glu	Thr	Glu 120	туг	Gly	Pro	Cys	Arg 125	Arg	Glu	Met
Glu	Asp 130	Thr	Leu	Asn	His	Leu 135	Lys	Phe	Leu	Asn	Val 140	Leu	Ser	Pro	Arg
Gly 145	Val	His	Ile	Pro	Asn 150	Cys	Asp	Lys	Lys	Gly 155	Phe	Tyr	Lys	Lys	Lys 160
Gln	Cys	Arg	Pro	Ser 165	Lys	Gly	Arg	Lys	Arg 170	Gly	Phe	Cys	Trp	Cys 175	Val
Asp	Lys	Tyr	Gly 180	Gln	Pro	Leu	Pro	Gly 185	туг	Thr	Thr	Lys	Gly 190	Lys	Glu
Asp	Val	His 195	Сув	Tyr	Ser	Met	Gln 200	Ser	Lys						
<211 <212	)> 13 l> 26 2> PF	59 RT	sapie	ane .	•				·						
			apre	;115											
	)> 11 Arg		Cys	His 5	Ser	Ala	Thr	Met	Phe 10	Glu	Ala	Arg	Leu	Val 15	Gln
Gly	Ser	Ile	Leu 20	Lys	Lys	Val	Leu	Glu 25	Ala	Leu	Lys	Asp	Leu 30	Ile	Asn

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu

40

35

Thr	Ser	Met	Ser	Lys 85		Leu	Lys	Cys	Ala 90		Asn	Glu	Asp	Ile 95	Ile
Thr	Leu	Arg	Ala 100	Glu	Asp	Asn	Ala	Asp 105	Thr	Leu	Ala	Leu	Val 110	Phe	Glu
Ala	Pro	Asn 115	Gln	Glů	Lys	Val	Ser 120	Asp	туг	Glu	Met	Lys 125	Leu	Met	Asp
Leu	Asp 130	Val	Glú	Glñ	Leu	Gly 135	Ile	Prö	Glű	Ġĺń	Glu 140	Tyr	Ser	Cys	Val
Val 145	Lys	Met	Pro	Ser	Gly 150	Glu	Phe	Ala	Ärg	Ile 155	Cys	Arg	Asp	Leu	Ser 160
His	Ile	Gly	Asp	Ala 165	Val	Val	Ilė	Ser	Cys	Ala	Lys	Āsp	Glý	Val	•
Phe	Ser	Ala	Ser 180	Gly	Glu	Leu	Gly	Asn 185	Gly	Asn	Ile	Lys	Leu 190	Ser	Ġln
Thŕ	Ser	Asn 195	Val	Asp	Lys	Glù	Glu 200	Glu	Ala	Val	Thr	Ile 205	Glu	Met	Asn
Glu	Pro 210	Val	Gln	Leu	Thr	Phe 215	Ala	Leu	Arg	Ťyr	Leu 220	Asn	Phe	Phe	Thr
Lys 225	Ala	Thr	Pro	Leu	Ser 230	Ser	Thr	Val	Thr	Leu 235	Ser	Met	Ser		Asp 240
Val	Pro	Leu	Val	Val 245	Ğlu	Tyr	Lys		Ala 250	Asp	Meť	Gly		Leu 255	Lys
Tyr	Tyr	Leu	Ala 260	Prö	Lÿs	Ile		Asp 265	Glu	Glu	Gly	Ser			
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<222 <223			uals	any	of 1	the :	natu					L-am:			
<220 <221		TE.			- •					٠			· .	•	
,															

<22	2> (	150)													
<22	3> X	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
	0> 1 Asp		Met	Ala 5	Thr	Thr	Gln	Ile	Ser 10		Asp	Glu	Leu	Asp 15	Glu
Leú	Lys	Glu	Ala 20	Phe	Ala	Lys	Val	Asp 25	Leu	Asn	Ser	Asn	Gly 30	Phe	Ile
Cys	Asp	Tyr 35	Glu	Leu	His	Glu	Leu 40	Phe	Lys	Glu	Ala	Asn 45	Met	Pro	Leu
Pro	Gly 50	туг	Lys	Val	Arg	Glu 55	Ile	Ile	Gln	Lys	Leu 60	Met	Leu	Asp	Gly
Asp 65	Arg	Asn	Lys	Asp	Gly 70	Lys	Ile	Ser	Phe	Asp 75	Glu	Phe	Val	Tyr	Ile 80
Phe	Gln	Glu	Val	Lys 85	Ser	Ser	Asp	Ile	.Ala 90	_	Thr	Phe	Arg	Lys 95	Ala
Ile	Asn	Arg	Lys 100	Glu	Gly	Ile	Cys	Ala 105	Leu	Gly	Gly	Thr	Ser 110	Glu	Leu
Ser	Ser	Glu 115	Gly	Thr	Gln	His	Ser 120	Tyr	Ser	Glu	Glu	Glu 125	Lys	Tyr	Ala
Kaa	Val 130	Asn	Trp	Ile	Asn	Lys 135	Ala	Leu	Glu	Asn	Asp 140	Pro	Asp	Cys :	Arg
lis	Val	Ile	Pro	Met	Xaa 150	Pro	Asn	Thr	Asp	Asp 155	Leu	Phe	Lys	Ala	Val 160
Gly	Asp	Gly	Ile	Val 165	Leu	Cys	Lys	Met	Ile 170	Asn	Leu	Ser	Val	Pro 175	Asp
Chr	Ile	Asp	Glu 180	Arg	Ala	Ile	Asn	Lys 185	Lys	Lys	Leu	Thr	Pro 190	Phe	Ile
le	Gln	Glu 195		Leu	Asn	Leu	Ala 200	Leu	Asn	Ser	Ala	Ser 205	Ala	Ile	Gly
:ys	His 210	Val	Val	Asn	Ile	Gly 215	Ala	Glu	Asp	Leu	Arg 220	Ala	Gly	Lys	Pro
lis 225	Leu	Val	Leu	Gly	Leu 230	Leu	Trp	Gln	Ile	11e 235	Lys	Ile	Gly	Leu	Phe 240
la	Asp	Ile	Glu	Leu 245	Ser	Arg	Asn	Glu	Ala 250	Leu	Ala	Ala	Leu	Leu 255	Arg

Asp	Gly	Glu	260				. Leu			. Leu	Ser	Pro	Glu 270		Leu
Leu		275				Phe			Glu	Asn	Ser	Gly 285	3-	Gln	Lys
Ile											Asp 300			Asn	Ser
Val 305		Asp	Ser								Asn				
Lys	Gly	Gln	Lys								Ile				Gly
Phe	Asn	Glu	Thr 340	Asp	Asp	Leu :	Lys	Arg 345	Ala	Glu	Ser	Met	Leu 350	Gln	Gln
Ala	Asp	Lys 355		Gly							Pro		Asp	Val	Val
	Gly 370		Pro		Leu		Leu	Ala	Phe	Val	Ala 380	Asn	Leu	Phe	Asn
Lys 385		Pro	Ala	Leu	Thr 390		Pro	Glu	Asn	Gln 395	Asp	Ile		Trp	
Leu	Leu	Glu	Gly	Glu 405	Thr					Thr	Phe	Arg	Asn	Trp 415	Met
Asn	Ser				Asn	Pro	His			His	Leu	Tyr		Asp	Leu
					Ile						Arg	Ile 445	Lys	Val	Pro
Val	Asp 450	Trp	Ser		Val						Pro 460	Lys	Leu	Gly	Ala
Asn 465	Met	Lys	Lys	Leu	Glu 470	Asn	Cys	Asn	Tyr	Ala 475	Val	Glu	Leu	Gly	Lys 480
His	Pro	Ala	Lys	Phe 485	ser	Leu	Val 	Gly	Ile 490	Gly	Gly	Gln	Asp	Leu 495.	Asn
Asp	Gly	Asn	Gln 500	Thr	Leu	Thr	Leu	Ala 505	Leu	Val	Trp	Gln	Leu 510	Met	Arg
Arg	Tyr	Thr 515	Leu	Asn	Val						Asp		Gln	Lys	Ala

Asn Asp Asp Ile Ile Val Asn Trp Val Asn Arg Thr Leu Ser Glu Ala Gly Lys Ser Thr Ser Ile Gln Ser Phe Lys Asp Lys Thr Ile Ser Ser 545 550 555 Ser Leu Ala Val Val Asp Leu Ile Asp Ala Ile Gln Pro Gly Cys Ile 570 Asn Tyr Asp Leu Val Lys Ser Gly Asn Leu Thr Glu Asp Asp Lys His 585 Asn Asn Ala Lys Tyr Ala Val Ser Met Ala Arg Arg Ile Gly Ala Arg . 600 Val Tyr Ala Leu Pro Glu Asp Leu Val Glu Val Lys Pro Lys Met Val 615 620 Met Thr Val Phe Ala Cys Leu Met Gly Arg Gly Met Lys Arg Val 630 <210> 1159

<211> 63 <212> PRT <213> Homo sapiens

<400> 1159

Thr Ile Trp Pro Leu Asn Phe His Arg Lys Asn Asp Pro Thr Phe Leu 10

Ser Met Ser Tyr Leu Ile Ser Arg Ser Trp Asp Gly Leu Thr Ile Leu 20

Val Tyr Ile Leu Asp Thr Glu Arg Cys Tyr Ala Ser Val Ile Ile Pro 40

Arg Leu Glu Ile Gly Arg Ala Lys Lys Val Leu Leu Phe Phe Leu 55

<210> 1160 <211> 207 <212> PRT <213> Homo sapiens

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Lys	Gln	Pro	Thr 20			Tyr	Ala		Ser	Lys			Ala 30		Cys
Phe	Val	Gln 35	Ser	Tyr	Trp		Gln . 40	Tyr	Lys	Phe	Pro	Val 45		Ile	Thr
Arg			Asn					His	Gln	Tyr	Pro 60		Lys	Val	Ile
Pro 65	Lys		Ile							Arg 75			Cys		
Gly	Ser		Leu										Asp		Val
Glu	Ala	Phe	Leu 100			Leu	Lys	Lys 105		Lys	Pro	Gly	Glu 110	Ile	_
Asn	Ile		Thr						Val	Val	Gln	Leu 125		Lys	Glu
Leu	Ile 130	Gln	Leu	Ile	Lys		Thr			Glu			Met	Glu	Asn
Trp 145	Val	Asp	Tyr	Val	Asn 150	Asp	Arg		Thr		Asp	Met	Arg	туr	Pro 160
Met	Lys		Glu									Pro		Val 175	Pro
Trp		Glu	Gly 180		Lys	Lys	Thr	Ile 185		Trp	Tyr	Arg	Glu 190	Asn	Phe
His	Asn	Trp 195	Lys	Asn	Val		Lys 200	Ala	Leu	Glu	Pro	Phe 205		Val	
-210	11														·
<210 <211															
			÷				-								
			apie												
<220	>	~ •			*										
<221	> si	TE													
<222	•	•													
<223	> Xa	a eg	<b>juals</b>	any	of	the	natu	rall	y oc	curr	ing	L-am	ino	acid	S
<220	>														

	1> 5														
	2> (	,													
<22	:3> x	aa e	qual	s an	y of	the	nat	ural	ly c	ccur	ring	L-a	mino	aci	ds
	0> 1														
Ala	Leu	Gly	Leu	Gly	Val	Thr	Met	Ala	Thr	Glu	Glu	Phe	Ile	Ile	Arg
1				5					10	)				15	
Ile	Pro	Pro	Tyr	His	Tyr	Ile	His	Val	Leu	Asp	Gln	Asn	Ser	Asn	Val
			20					25					30		
Ser	Arg	Val	Glu	Val	Gly	Pro	Lys	Thr	Tyr	Ile	Arg	Gln	Asp	Asn	Glu
		35					40					45			
Arg	Val	Leu	Phe	Ala	Pro	Met	Arg	Met	Val	Thr	Val	Pro	Pro	Arq	His
	50					55		•			60			-	
Tyr	Cys	Thr	Val	Ala	Asn	Pro	Val	Ser	Arq	Asp	Ala	Gln	Glv	Leu	Val
65					70					75			1		80
															•
Leu	Phe	Asp	Val	Thr	Gly	Gln	Val	Ara	Len	Ara	His	Ala	Asn	T.e.u	Glu
				85		<b></b>			90				1155	95	GIU
									,,					,,	
Tle	Ara	tan	בומ	Gln	Asp	Pro	Dhe	Dro	Tau	Tur	Pro	Gly	C1.,	17-1	T 011
116	ALG	Leu		GIII	ASP	PIO	FIIE		Leu	TYL	PIU	GIY		vai	ren
		-	100					105					110		
~1	T	2	T1 -	m b	D	T	<b>~1</b> -	**- 1	*** 1	T	D	<b>.</b>	m b		<b>.</b> .
GIU	гĀЗ	-	11e	Thr	Pro	rea		vaı	vaı	reu	Pro		Thr	Ala	Leu
		115					120					125			
		_		_	_				_	_	_			_	
HIS		Lys	Ala	Leu	Leu		Pne	GIu	Asp	Lys		GLY	Asp	Lys	Val
	130				•	135					140				
	Ala	Gly	Asp	Glu	Trp	Leu	Phe	Glu	Gly		Gly	Thr	Tyr	Ile	
145					150					155					160
									•						
Arg	Lys	Glu	Val		Val	Val	Glu	Ile	Ile	Gln	Ala	Thr	Ile	Ile	Arg
				165					170					175	
Gln	Asn	Gln	Ala	Leu	Arg	Leu	Arg	Ala	Arg	Lys	Glu	Cys	Trp	Asp	Arg
			180					185					190		
Asp	Gly	Lys	Glu	Arg	Val	Thr	Gly	Glu	Glu	Trp	Leu	Val	Thr	Thr	Val
		195					200					205			
Gly	Ala	Tyr	Leu	Pro	Ala	Val	Phe	Glu	Glu	Val	Leu	Asp	Leu	Val	Asp
_	210					215					220	_			-
								*							
Ala	Val	Ile	Leu	Thr	Glu	Lys	Thr	Ala	Leu	His	Leu	Arq	Ala	Ara	Ara
225					230	-				235		_	•	,	240
Asn	Phe	Arg	Asp	Phe	Arg	Gly	Val	Ser	Arg	Arg	Thr	Gly	Glu	Glu	Trp
		9				1			9	9		1			

				243	•				250	,				255	)
Leu	Val	Thr	Val 260		Asp	Thr	Glu	Ala 265		val	L Pro	) Asp	270		Glu
Glu	Val	. Leu 275		Val	. Val	Pro	1le 280		Thr	Leu	ı Gly	285	His	Asn	Туг
Cys	Val 290		Leu	Asp							Lys		Gln	Leu	Gly
Gln 305		Arg	Val	Val	Lys 310								Gln		_
Glu	Gln	Leu											Ser		
Gln	Gly	Leu	Leu 340										Gly 350		Asp
Glu	Glu	Lys 355		Ser	His	Gln					Trp		Ile	Arg	Gly
Pro	Leu 370		Tyr	Val							Val 380		Glu 	Glu	Arg
Gln 385	Ala	Ile	Pro		Asp -390			Glu	Gly	Ile 395	_	Val	Gln	Asp	Val 400
Lys	Thr	Gly	Lys	Val 405	Arg	Ala	Val	Ile	Gly 410	Ser	Thr	Tyr	Met	Leu 415	Thr
Gln	Asp	Glu	Val 420	Leu	Trp	Glu	Lys	Glu 425	Leu	Pro	Pro	Gly •	Val 430	Glu	Glu
Leu	Leu	Asn 435	Lys	Gly	Gln	Asp	Pro 440	Leu	Ala	Asp	Arg	Gly 445	Glu	Lys	Asp
Thr	Ala 450	Lys	Ser	Leu	Gln	Pro 455	Leu	Ala	Pro	Arg	Asn 460	Lys	Thr	Arg.	Val
Val 465	Ser	Tyr	Arg	Val	Pro 470	His	Asn	Ala	Ala	Val 475	Gln	Val	Tyr	Asp	Туг 480
Arg	Glu	Lys	Arg	Ala 485	Arg.	Val	Val	Phe	Gly 490	Pro	Glu	Leu	Val	Ser 495	Leu
еĵј	Pro	Glu	Glu 500	Gln	Phe	Thr	Val	Leu 505	<u>S</u> er	Leu	Ser	Ala	Gly 510	Arg	Pro
Lys	Arg	Pro	His	Ala	Arg	Arg	Ala	Leu	Cys	Leu	Leu	Leu	Gly	Pro	Asp

		515					520					525	1		
Phe	Phe 530		Asp	Val	Ile	Thr 535		Glu	Thr	Ala	Asp 540		Ala	. Arg	Le
Gln 545		Glņ	Leu	Ala	Tyr 550		Trp	His	Phe	Glu 555		. Asn	Asp	Arg	Lys 560
Asp	Pro	Gln	Glu	Thr 565	Ala	Lys	Leu	Phe	Ser 570		Pro	Asp	Phe	Val 575	_
Asp	Ala	Cys	Lys 580	Ala	Ile	Ala	Ser	Arg 585		Arg	. Gly	Ala	Val 590		Ser
Val	Thr	Phe 595		Asp	Phe	His	Lys 600	Asn	Ser	Ala	Arg	11e 605		Arg	Thr
Ala	Val 610	Phe	Gly	Phe	Glu	Thr 615	Ser	Glu	Ala	Lys	Gly 620	Pro	Asp	Gly	Met
Ala 625	Leu	Pro	Arg		Arg 630		Gln	Ala	Val	Phe 635	Pro	.Gln	Asn	Gly	Leu 640
Val	Val	Ser	Ser	Val 645	Asp	Val	Gln	Ser	Val 650	Glu	Pro	Val	Asp	Gln 655	Arg
Thr	Arg	Asp	Ala 660	Leu	Gln	Arg	Ser	Val 665	Gln	Leu	Ala	Ile	Glu 670	Ile	Thr
Thr	Asn	Ser 675	Gln	Glu	Ala	Ala	Ala 680	Lys	His	Glu	Ala	Gln 685	Arg	Leu	Glu
Gln	Glu 690	Ala	Arg	Gly	Arg	Leu 695	Glu	Arg	Gln	Lys	Ile 700	Leu •	Asp	Gln	Ser
Glu 705	Ala	Glu	Lys	Ala	Arg 710	Lys	Glu	Leu	Leu	Glu 715	Leu	Glu	Ala	Leu	Ser 720
Met	Ala	Val	Glu	Ser 725	Thr	Gly	Thr	Àla	Lys 730	Ala	Glu	Ala	Glu	Ser 735	Arg
Ala	Glu	Ala	Ala 740	Arg	Ile	Glu	Gly	Glu 745	Gly	Ser	Val	Leu	Gln 750	Ala	Lys
Leu	Lys	Ala 755	Gln	Ala	Leu	Ala	Ile 760	Glu	Thr	Glu	Ala	Glu 765	Leu	Gln	Arg
Val	Gln 770	Lys	Val	Arg	Glu	Leu 775	Glu	Leu	Val	Tyr	Ala 780	Arg	Ala	Gln	Leu
c1	T	C1	*** 1	C	T		<b>~1</b> -	C1-	T		<b>~1</b>	**- 1	C1	**- 1	T

785 800 790 795 Lys Phe Lys Gln Met Thr Glu Ala Ile Gly Pro Ser Thr Ile Xaa Asp 810 Leu Ala Val Ala Gly Pro Glu Met Gln Val Lys Leu Leu Gln Ser Leu 820 825 830 Gly Leu Lys Ser Thr Leu Ile Thr Asp Gly Phe Xaa Ser Ile Asn Phe 835 840 with the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the contrast of the cont <210> 1162 <211> 58 <212> PRT <213> Homo sapiens <220> <221> SITE <222>.(2) <223> Xaa equals any of the naturally occurring L-amino acids the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co <220> <221> SITE <223> Xaa equals any of the naturally occurring L-amino acids <400> 1162 Phe Xaa Val Gly Ile Val Asn Phe Ser Gln Pro Pro His Ala Ala Gly 1.5 Glu Cys Gly Cys Ser Ser Ser Glu Met Leu Thr Xaa Lys Arg Glu Val 20 Lys Gln Ser Arg Tyr Val Gln Pro Cys Leu Gln Asn Pro Ser Leu Ser 35 40 Ser Leu Ile Arg Ser Phe Leu Val Phe Tyr 50 .... 55 <210> 1163 <211> 565 <212> PRT

<213> Homo sapiens

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Gly	Trp	Arg 35	Asn	Val	Thr	Arg	Leu 40	Leu	Val	Phe	Ser	Thr 45	Asp	Ala	Gly
Phe	His 50	Phe	Ala	Gly	Asp	Gly 55	Lys	Leu	Gly	Gly	11e 60	Val	Leu	Pro	Asn
Asp 65	Gly	Gln	Cys	His	Leu 70	Glu	Asn	Asn	Met	Туr 75	Thr	Met	Ser	His	Tyr 80
Tyr	Asp	Tyr	Pro	Ser 85	Ile	Ala	His	Leu	Val 90	Gln	Lys	Leu	Ser	Glu 95	Asn
Asn	Ile	Gln	Thr 100	Ile	Phe	Ala	Val	Thr 105	Glu	Glu	Phe	Gln	Pro 110	Val	Tyr
Lys	Glu	Leu 115	Lys	Asn	Leu	Ile	Pro 120	Lys	Ser	Ala	Val	Gly 125	Thr	Leu	Ser
Ala	Asn 130	Ser	Ser	Asn	Val	Ile 135	Gln	Leu	Ile	Ile	Asp 140	Ala	Tyr	Asn	Ser
Leu 145	Ser	Ser	Glu	Val	Ile 150	Leu	Glu	Asn	Gly	Lys 155	Leu	Ser	Glu	Gly	Val 160
				165					170		Val			175	
Glu	Asn	Gly	Arg 180	Lys	Суз	Ser	Asn	Ile 185	Ser	Ile	Gly	Asp	Glu 190	Val	Gln
		195					200	_	-		Lys	205			
Ser	Phe 210	Lys	Ile	Arg	Pro	Leu 215	Gly	Phe	Thr	Glu	Glu 220	Val	Glu	Val	Ile
Leu 225	Gln	Tyr	Ile	Cys	Glu 230	Cys	Glu	Cys	Gln	Ser 235	Glu	Gly	Ile	Pro	Glu 240
Ser	Pro	Lys	Cys	His 245	Glu	Gly	Asn	Gly	Thr 250	Phe	Glu	Cys	Gly	Ala 255	Cys
Arg	Cys	Asn	Glu	Gly	Arg	Val	_	Arg	His	Cys	Glu	Cys	Ser	Thr	Asp

Glu	Val	Asn 275		Glu	Asp	Met	Asp 280		Tyr	Cys	Arg	Lys 285		Asn	Ser
Ser	Glu 290		Cys	Ser	Asn	Asn 295	Gly	Glu	Cys	Val	Cys 300	Gly	Gln	Cys	Val
Cys 305		Lys	Arg	Asp	Asn 310		Asn				Ser	_	_		Cys 320
	Cys		Asn -	Phe 325			Asp								
Gly	Asn	Gly		Cys			Arg	Val 345		Glu	Cys	Asn	Pro 350	Asn	Tyr
Thr	Gly	Ser 355	Ala	Cys	Asp	Cys	Ser 360	Leu	Asp	Thr	Ser	Thr 365	Cys	Glu	Ala
Ser	Asn 370	Gly	Gln	Ile	Cys	Asn 375	Gly	Arg	Gly	Ile	Cys 380	Glu	Cys	Gly	Val
Cys 385	Lys	Cys	Thr	Asp	Pro 390	Lys	Phe	Gln	Gly	Gln 395	Thr	Суs	Glu	Met	Cys 400
Gln	Thr	Cys	Leu	Gly 405	Val	Cys	Ala	Glu	His 410	Lys	Glu	Cys	Val	Gln 415	-
Arg	Ala	Phe	Asn 420	Lys	Gly	Glu	Lys	Lys 425	Asp	Thr	Cys	Thr	Gln 430	Glu	Cys
Ser	Tyr	Phe 435	Asn	Ile	Thr	Lys	Val 440	Glu	Ser	Arg	Asp	Lys 445	Leu	Pro	Gln
Pro	Val 450	Gln	Pro	Asp	Pro	Val 455	Ser	His	Cys	Lys	Glu 460	Lys	Asp	Val	Asp
Asp 465	Cys	Trp	Phe	Tyr	Phe 470	Thr	Tyr	Ser	Val	Asn 475	Gly	Asn	Asn	Glu	Val 480
Met	Val	His	Val	Val 485	Glu	Asn	Pro	Glu	Cys 490	Pro	Thr	Gly	Pro	Asp 495	Ile
Ile	Pro	Ile	Val 500	Ala	Gly	Val	Val	Ala 505	Gly	Ile	Val	Leu	Ile 510	Gly	Leu
Ala	Leu	Leu 515	Leu	Ile	Trp	Lys	Leu 520	Leu	Met	Ile	Ile	His 525	Asp	Arg	Arg
Glu	Phe 530	Ala	Lys	Phe		Lys 535	Glu	Lys	Met	Asn	Ala 540	Lys	Trp	Asp	Thr

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<212> PRT

<213> Homo sapiens

<400> 1164

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Leu Pro Pro Gly Asp Tyr Ser Thr Thr Pro Gly Gly Thr Leu Phe Ser 50 55 60

Thr Thr Pro Gly Gly Thr Arg Ile Ile Tyr Asp Arg Lys Phe Leu Met 65 70 75 80

Glu Cys Arg Asn Ser Pro Val Thr Lys Thr Pro Pro Arg Asp Leu Pro 85 90 95

Thr Ile Pro Gly Val Thr Ser Pro Ser Ser Asp Glu Pro Pro Met Glu 100 105 110

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<212> PRT

<213> Homo sapiens

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Pro	Ala	Thr 35		Met	Asp	Ala	Arg 40		y Val	Pro	Gln	Lys 45			Arg
Val	Lys 50	Lys	Asn	Leu	Lys	Lys 55	Phe	Arg	Tyr	Val	Lys 60	Leu	Ile	Ser	Met
Glu 65	Thr	Ser	Ser	Ser	Ser 70	Asp	Asp	Ser	Cys	Asp 75	Ser 79	Phe	Ala	Ser	Asp 80
Asn	Phe	Ala	Asn	Thr 85	Arg	Leu	Gln	Ser	Val 90	Arg	Glu	Gly	Cys	Arg	Thr
Arg	Ser	Gln	Cys 100	Arg	His	Ser	Gly	Pro 105	Leu	Arg	Val	Ala	Met 110	_	Phe
Pro	Ala	Arg 115	Ser	Thr	Arg	Gly	Ala 120	Thr	Asn	Lys	Lys	Ala 125	Glu	Ser	Arg
Gln	Pro 130	Ser	Glu	Asn	Ser	Val 135			Ser		Ser 140		Ser	Glu	Asp
Glu 145	Ser	Gly	Met	Asn	Phe 150	Leu 	Glu	Lys	Arg	Ala 155	Leu	Asn 	Ile	Lys	Gln 160
Asn	Lys	Ala	Met	Leu 165	Ala	Lys	Leu	Met	Ser 170	Glu	Leu	Glu	Ser		Pro
Gly	Ser	Phe	Arg 180	Gly	Arg	His	Pro 	Leu 185	Pro		Ser	Asp	Ser 190	Gln	Ser
Arg	Arg		Arg				Phe 200	Pro	Gly		Ala				Asn
Pro	Glu 210	Arg	Arg	Ala	Arg	Pro 215	Leu	Thr	Arg	Ser	Arg 220	Ser	Arg	Ile	Leu
Gly 225	Ser	Leu	Asp	Ala	Leu 230	Pro	Met	Glu	Glu	Glu 235	Glu .:	Glu	Glu	Asp	Lys 240
Tyr	Met	Leu	Val	Arg 245	Lys	Arg	Lys	Thr			Gly		Met	Asn 255	Glu
							Arg			Ser	Ser	Val		Leu	Pro
lis :	Ile	Ile .	Arg :	Pro	Val (	Glu	Glu	Ile	Thr	Glu	Glu	Glu	Leu	Glu	Asn

275 280 285 Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser 290 295 300 Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys 310 315 Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys 325 330 Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro 340 Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys 360 Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala 370 375 Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys 390 395 Gln Glu Phe Glu Met Gln Ala 405 <210> 1166 <211> 240 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (197) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (201) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (202) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

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Arg	ту	r Il		u L	· eu	Phe	Arg	Ser 40	Thr	Ala	Ala	Glu	Val		Gln	Val
Leu	Ası 5							Pro		Ile	Pro	Leu 60	Pro	Thr	Pro	Pro
Ile 65	Ile	e Pr	o Va	 1 L		70			Phe	Val	Pro 75		Thr	Asn	:: Val	Arg 80
Asp	Суз	s Il	e Ar						Pro		Ala	Ala	Thr	Ile	Glu 95	Asp
Ile	Let	1 As	p Ph 10		eu	Gly	Glu	Phe	Ala 105	Thr	Asp	Ile	Arg	Thr 110	His	Gly
Val	His	ме 11		1 L	eu	Asn	His	Gln 120	Gly	Arg	Pro	Ser	Gly 125	Asp	Ala	Phe
Ile	Glr 130		t Ly	s S	er	Ala	Asp 135		Ala	Phe	Met	Ala 140	Ala	Gln	Lys	Cys
His 145	Lys	Lys	AS	n M	et	Lys 150	Asp	Arg	Tyr	Val	Glu 155	Val	Phe	Gln	Cys	Ser 160
Ala	Glu	Gli	ı Me		sn 65	Phe	Val	Leu	Met	Gly 170	Gly	Thr	Leu	Asn	Arg 175	Asn
Gly	Leu	Sei	Pro		ro	Pro	Cys	Leu	Ser 185	Pro	Pro	 Ser	Tyr	Thr 190	Phe	Pro
Ala	Pro	195		a X	aa	īle	Pro	Thr 200	Xaa	Xaa	Ala	Ile	Tyr 205	Gln	Pro	Ser
Val	Ile 210		ı Ası	n Pi	ro.	Arg	Ala 215	Leu	Gln	Pro	Xaa	Thr 220	Ala	Tyr	туr	Pro
Ala 225	Gly	Thr	Glı			Phe 230	Met	Asn	Tyr	Thr	Ala 235	Tyr	туr	Pro	Ser	Val 240